DENON®

AVR-S500BT

AV SURROUND RECEIVER

Owner's Manual

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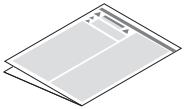
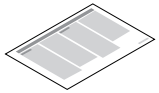
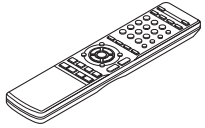
Thank you for purchasing this Denon product.
To ensure proper operation, please read this owner's manual carefully before using the product.
After reading this manual, be sure to keep it for future reference.

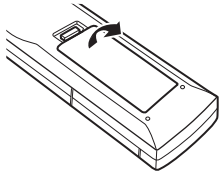
Accessories

Check that the following parts are supplied with the product.

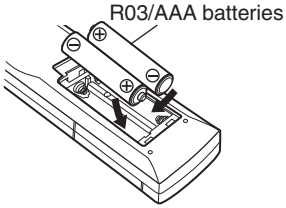
Quick Start Guide	 Safety Instructions	 Notes on radio	Warranty (for North America model only)	
FM indoor antenna	AM loop antenna	Sound calibration microphone	 Remote control unit (RC-1196)	R03/AAA batteries

Inserting the batteries

1 **Remove the rear lid in the direction of the arrow and remove it.**



2 **Insert two batteries correctly into the battery compartment as indicated.**



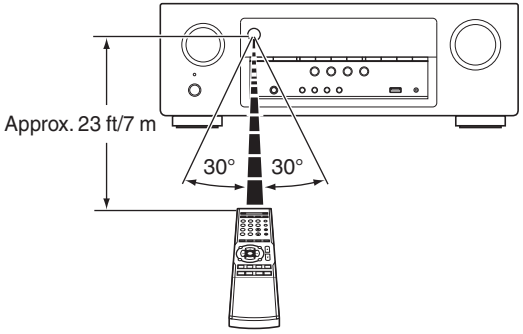
3 **Put the rear cover back on.**

NOTE

- To prevent damage or leakage of battery fluid:
  - Do not use a new battery together with an old one.
  - Do not use two different types of batteries.
- Remove the batteries from the remote control unit if it will not be in use for long periods.
- If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.

Operating range of the remote control unit

Point the remote control unit at the remote sensor when operating it.



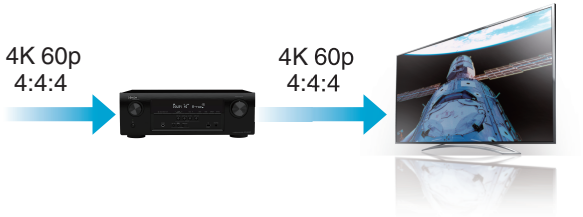
Features

High quality sound

- **With discrete circuit technology, the power amplifier provides identical quality for all 5-channels (90 Watts x 5-channels)**
  For optimum realism and stunning dynamic range, the power amplifier section features discrete power devices (not integrated circuitry).
  By using high current, high power discrete power devices, the amplifier is able to easily drive high quality speakers.

High performance

- **4K 60Hz input/output supported**



When 4K Ultra HD (High Definition) is used, an input/output speed of 60 frames per second (60p) is achieved for video signals. When connected to 4K Ultra HD and 60p video signal input compatible TV, you can enjoy the sense of realism only available from high-definition images, even when viewing fast-moving video.
This unit also supports image processing for 4K 60p, 4:4:4 and 24-bit videos. By processing the video at the original resolution, this unit lets you enjoy flawless, high-definition picture quality.

- **HDMI connections enable connection to various digital AV devices (5 inputs, 1 output)**

This unit is equipped with 5 HDMI inputs and 1 HDMI output enabling connection to various HDMI compatible devices such as Blu-ray Disc players, game consoles and HD video camcorders.

- **Wireless connection with Bluetooth devices can be carried out easily (☞ p. 41)**

You can enjoy music simply by connecting wirelessly with your smartphone, tablet, PC, etc.

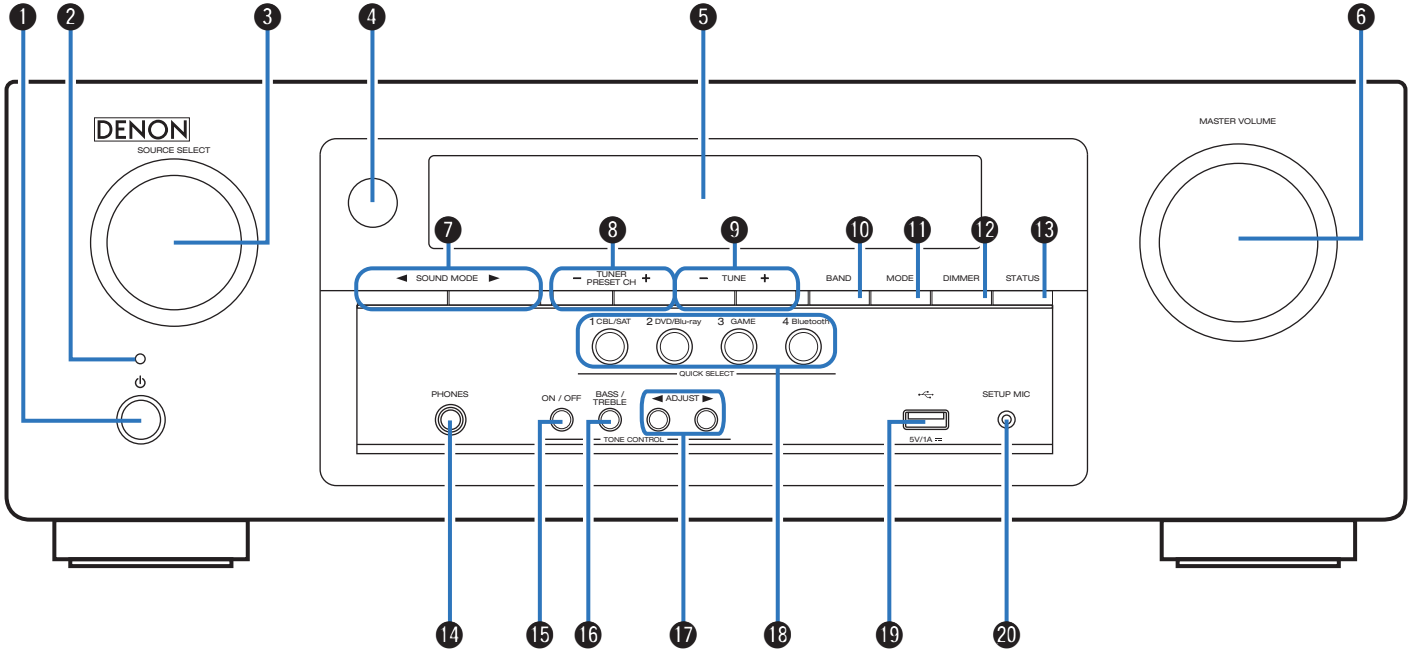
- **Energy-saving design**
  This unit is equipped with an ECO Mode function that allows you to enjoy music and movies while reducing the power consumption during use, and also an auto-standby function that automatically turns off the power supply when the unit is not in use. This helps reduce unnecessary power use.

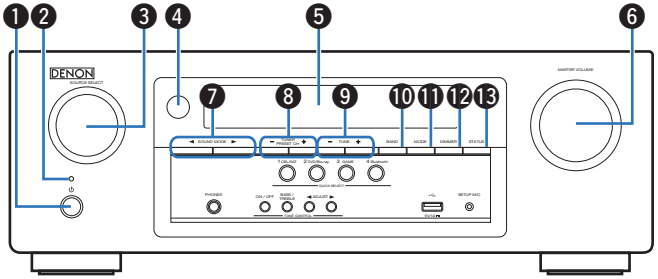
Easy operation

- **“Setup Assistant” provides easy-to-follow setup instructions**
  First select the language when prompted. Then simply follow the instructions displayed on the TV screen to set up the speakers etc.
- **Easy to use Graphical User Interface**
  This unit is equipped with a Graphical User Interface for improved operability.

Part names and functions

Front panel





1 Power operation button (⏻)
Used to turn the power on/off (standby).
(☞ p. 37)

2 Power indicator
This is lit as follows according to the power status:
- Green : Power on
- Off: Normal standby
- Red:
  - When “HDMI PassThrough” (☞ p. 73) is set to “On”
  - When “BluetoothStandby” (☞ p. 87) is set to “On”

3 SOURCE SELECT knob
This selects the input source. (☞ p. 37)

4 Remote control sensor
This receives signals from the remote control unit. (☞ p. 6)

5 Display
This displays various pieces of information. (☞ p. 13)

6 MASTER VOLUME knob
This adjusts the volume level. (☞ p. 38)

7 SOUND MODE buttons (◀ ▶)
These select the sound mode. (☞ p. 55)

8 Tuner preset channel buttons (TUNER PRESET CH +, –)
These select preset broadcast stations. (☞ p. 48)

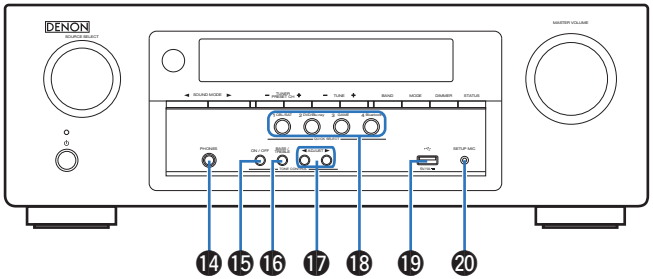
9 Tuning buttons (TUNE +, –)
Select either FM broadcast or AM broadcast. (☞ p. 46)

10 Reception band select button (BAND)
This switches the reception band.

11 Tuning mode select button (MODE)
This switches the tuning mode. (☞ p. 46)

12 DIMMER button
Each press of this switches the brightness of the display. (☞ p. 88)

13 STATUS button
Each press of this switches the status information that is shown on the display. (☞ p. 43)



⓮ Headphones jack (PHONES)

This is used to connect headphones.
When the headphones are plugged into this jack, audio will no longer be output from the connected speakers or from the SUBWOOFER connectors.

NOTE

To prevent hearing loss, do not raise the volume level excessively when using headphones.

⓯ TONE CONTROL ON/OFF button

Set the tone control function to on/off. (☞ p. 52)

⓰ BASS/TREBLE button

Selects the range for which to adjust the tone. (☞ p. 52)

⓱ Tone adjustment buttons (ADJUST◄ ►)

Adjusts the tonal quality of the sound. (☞ p. 52)

⓲ QUICK SELECT buttons

With a single press of any of these buttons, you can call up various settings you've registered to each button such as the input source, volume level and sound mode settings. (☞ p. 61)

⓳ USB port

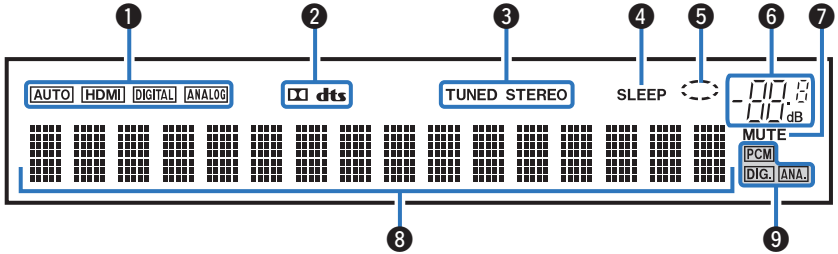
This is used to connect USB storages (such as USB memory devices) and the USB cable supplied. (☞ p. 32)

⓴ SETUP MIC jack

This is used to connect the supplied Sound calibration microphone. (☞ p. 79)

BASS/TREBLE button and ADJUST ◄ ► buttons can be operated when the "Tone" (☞ p. 52) setting is "On".

Display



1 Input mode indicators
These light according to the audio input mode settings of each input source. (☞ p. 76)

2 Decoder indicators
These light when Dolby or DTS signals are input or when the Dolby or DTS decoder is running.

3 Tuner reception mode indicators
These light up according to the reception conditions when the input source is set to “Tuner”.
TUNED: Lights up when the broadcast is properly tuned in.
STEREO: Lights up when receiving FM stereo broadcasts.

4 Sleep timer indicator
This lights when the sleep mode is selected. (☞ p. 60)

5 Circle indicator
This is displayed when the input source is “USB” when you are playing back music.

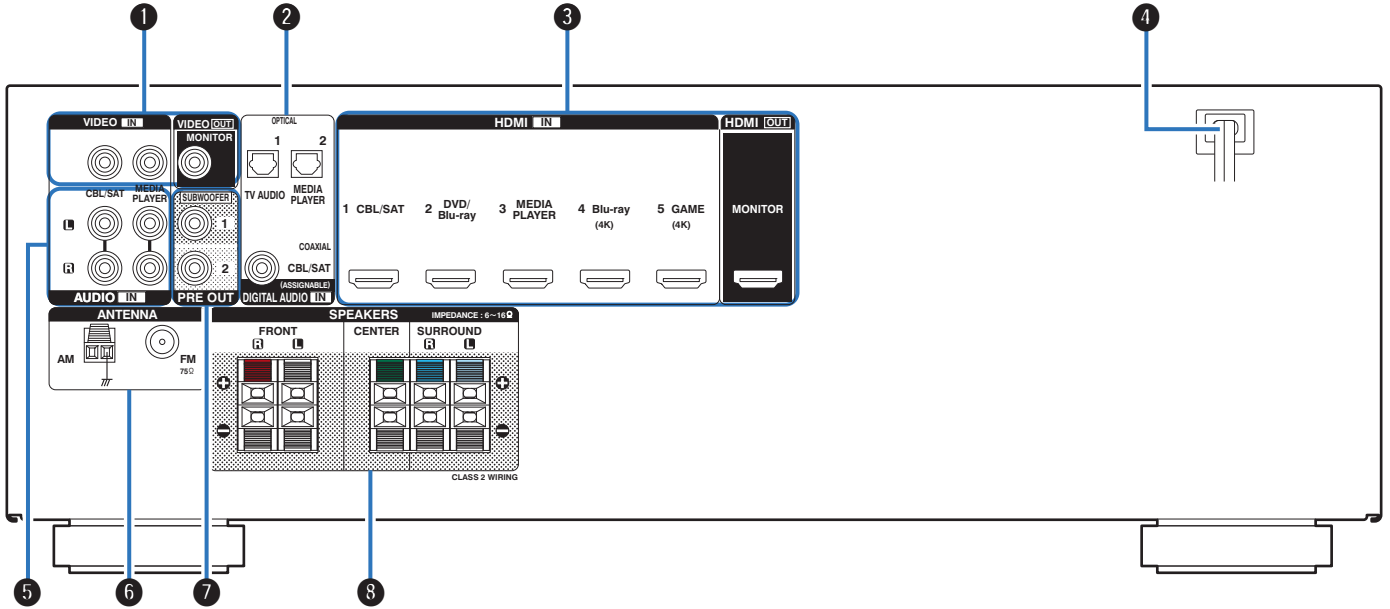
6 Volume indicator

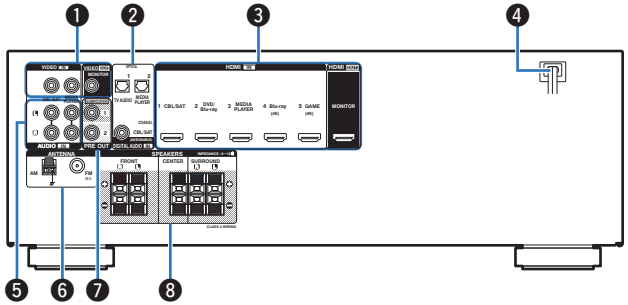
7 MUTE indicator
This blinks while the sound is muted. (☞ p. 38)

8 Information display
The input source name, sound mode, setting values and other information are displayed here.

9 Input signal indicators
The respective indicator will light corresponding to the input signal. (☞ p. 76)

Rear panel


1
2
3
4
VIDEO IN
VIDEO OUT
MONITOR
OPTICAL
1
2
TV AUDIO
MEDIA PLAYER
COAXIAL
CBL/SAT
(ASSIGNABLE)
DIGITAL AUDIO IN
HDMI IN
1 CBL/SAT
2 DVD/ Blu-ray
3 MEDIA PLAYER
4 Blu-ray (4K)
5 GAME (4K)
HDMI OUT
MONITOR
CBL/SAT
MEDIA PLAYER
AUDIO IN
SUBWOOFER
1
2
PRE OUT
ANTENNA
AM
FM 75Ω
SPEAKERS
IMPEDANCE : 6~16Ω
FRONT
CENTER
SURROUND
CLASS 2 WIRING
5
6
7
8



1 Video connectors (VIDEO)
Used to connect devices equipped with video connectors.
(☞ p. 30)

2 Digital audio connectors (DIGITAL AUDIO)
Used to connect devices equipped with digital audio connectors.
(☞ p. 27, 30)

3 HDMI connectors
Used to connect devices equipped with HDMI connectors.
(☞ p. 26, 29, 30, 31)

4 Power cord (☞ p. 35)

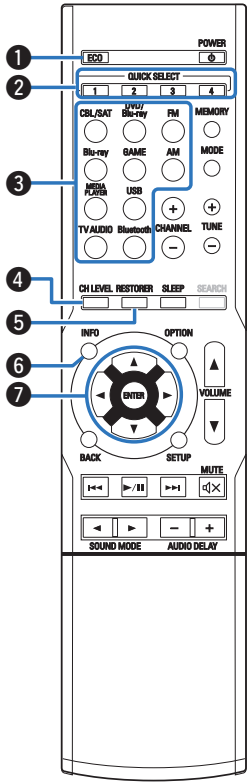
5 Analog audio connectors (AUDIO)
Used to connect devices equipped with analog audio connectors.
(☞ p. 30)

6 FM/AM antenna terminals (ANTENNA)
Used to connect FM antennas and AM loop antennas. (☞ p. 33)

7 PRE OUT connectors
Used to connect a subwoofer with a built-in amplifier. (☞ p. 23)

8 Speaker terminals (SPEAKERS)
Used to connect speakers. (☞ p. 22)

Remote control unit



1 ECO Mode button
This switches to ECO Mode. (☞ p. 86)

2 QUICK SELECT buttons (1 – 4)
These call up settings registered to each button, such as input source, volume level and sound mode settings. (☞ p. 61)

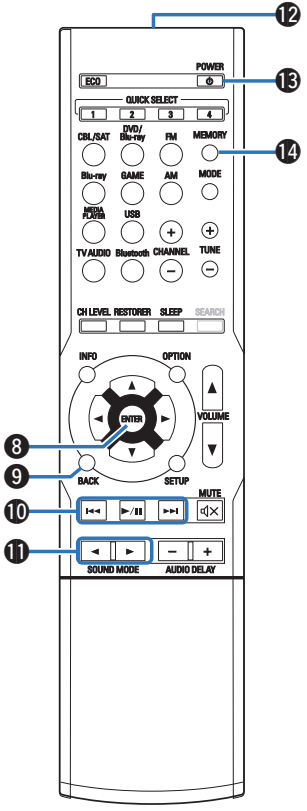
3 Input source select buttons
These select the input source. (☞ p. 37)

4 Channel level button (CH LEVEL)
Adjusting the volume of the speakers. (☞ p. 59)

5 RESTORER button
Expands the low and high frequency components of compressed audio content such as MP3 files to enable richer audio playback. (☞ p. 70)

6 Information button (INFO)
This displays the status information on the TV screen. (☞ p. 89)

7 Cursor buttons (△▽◁ ▷)
These select items. (☞ p. 66)



⑧ ENTER button

This determines the selection. (☞ p. 66)

⑨ BACK button

This returns to the previous screen. (☞ p. 66)

⑩ System buttons

These perform playback related operations. (☞ p. 40)

- Skip buttons (I◄◄, ►►I)
- Play/pause button (►/II)

⑪ SOUND MODE buttons (◄ ►)

These select the sound mode. (☞ p. 55)

⑫ Remote control signal transmitter

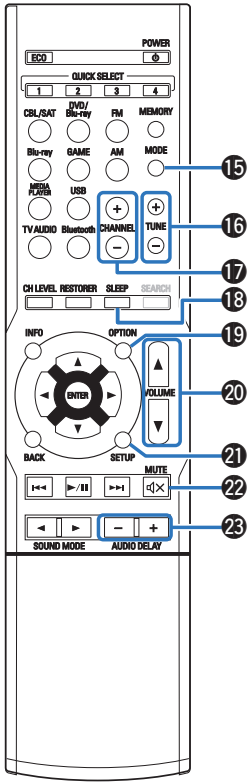
This transmits signals from the remote control unit. (☞ p. 6)

⑬ POWER button (⏻)

This turns the power on/off. (☞ p. 37)

⑭ Preset memory button (MEMORY)

The current broadcast station that is preset. (☞ p. 48)



15 Tuning mode select button (MODE)
This switches the tune mode. (☞ p. 46)

16 Tuning buttons (TUNE +, –)
These select either FM broadcast or AM broadcast. (☞ p. 46)

17 Channel buttons (CHANNEL +, –)
These select preset radio stations. (☞ p. 48)

18 SLEEP button
This sets the sleep timer. (☞ p. 60)

19 OPTION button
This displays the option menu on the TV screen. (☞ p. 50)

20 VOLUME buttons (▲▼)
These adjust the volume level. (☞ p. 38)

21 SETUP button
This displays the menu on the TV screen. (☞ p. 66)

22 MUTE button (🔇×)
This mutes the output audio. (☞ p. 38)

23 AUDIO DELAY buttons (+, –)
Compensates for incorrect timing between video and audio. (☞ p. 71)

The SEARCH button on this unit cannot be used.

■ Contents

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NOTE

- Do not plug in the power cord until all connections have been completed. However, when the “Setup Assistant”is running, follow the instructions in the “Setup Assistant” (page 8 in the separate “Quick Start Guide”) screen for making connections. (During “Setup Assistant” operation, the input/output connectors do not conduct current.)
- Do not bundle power cords together with connection cables. Doing so can result in noise.

■ Cables used for connections

Provide necessary cables according to the devices you want to connect.

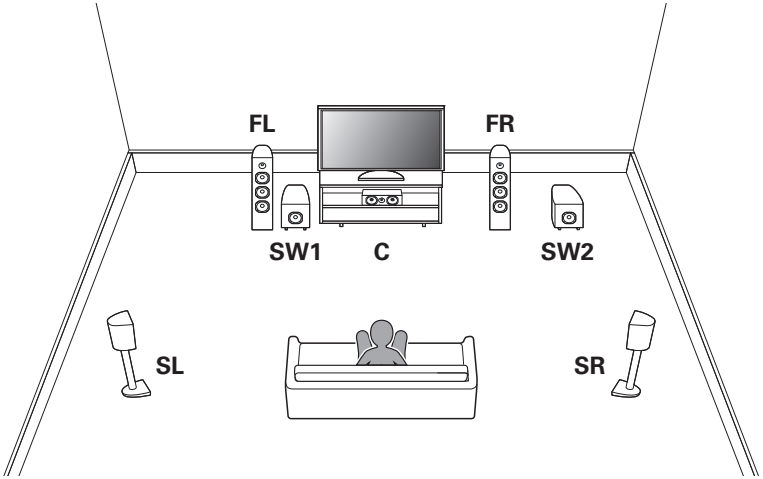
Speaker cable	
Subwoofer cable	
HDMI cable	
Video cable	
Coaxial digital cable	
Optical cable	
Audio cable	

Connecting speakers

Install speakers and connect them to this unit. (☞ p. 20, 22)

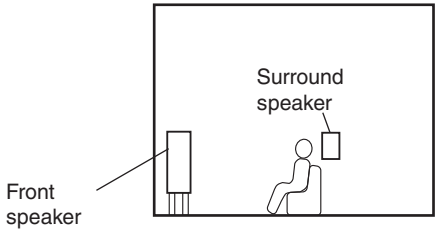
Speaker installation

Determine the speaker system depending on the number of speakers you are using and install each speaker and subwoofer in the room. Speaker installation is explained using this example of a typical installation.



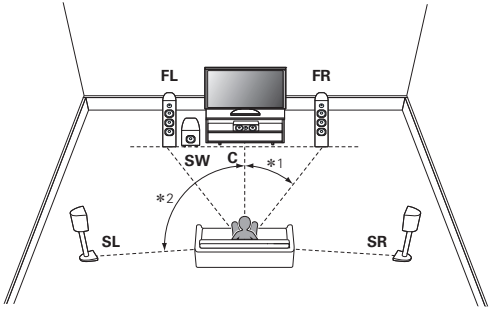
FL/FR (Front speaker left/right)**:**	Place the FRONT left and right speakers an equal distance from the main listening position. The distance between each speaker and your TV should also be the same.
C (Center speaker)**:**	Place the CENTER speaker in front of and at the center of the TV, between the front left and right speakers.
SL/SR (Surround speaker left/right)**:**	Place the SURROUND left and right speakers an equal distance to the left and right sides of the main listening position.
SW 1/2 (Subwoofer) **:**	Place the SUBWOOFER at a convenient location near the front speakers.

Use the illustration below as a guide for how high each speaker should be installed.
The height does not need to be exactly the same.



【Viewed from the side】

■ When 5.1-channel speakers are installed



*1:22° - 30° *2:120°

Speaker connection

Here we connect the speakers in the room to this unit.
This section explains how to connect them using typical examples.

NOTE

- Disconnect this unit's power plug from the power outlet before connecting the speakers. Also, turn off the subwoofer.
- Connect so that the speaker cable core wires do not protrude from the speaker terminal. The protection circuit may be activated if the core wires touch the rear panel or if the + and - sides touch each other. ("Protection circuit" (☞ p. 116))
- Never touch the speaker terminals while the power cord is connected. Doing so could result in electric shock. When the "Setup Assistant" (page 8 in the separate "Quick Start Guide") is running, follow the instructions in the "Setup Assistant" screen for making connections. (Power is not supplied to the speaker terminals while the "Setup Assistant" is running.)
- Use speakers with an impedance of 6 – 16 Ω/ohms.

■ Connecting the speaker cables

Carefully check the left (L) and right (R) channels and + (red) and – (black) polarities on the speakers being connected to this unit, and be sure to connect the channels and polarities correctly.

1 **Peel off about 3/8 inch (10 mm) of sheathing from the tip of the speaker cable, then either twist the core wire tightly or terminate it.**

2 **Press the lever on the speaker terminal.**

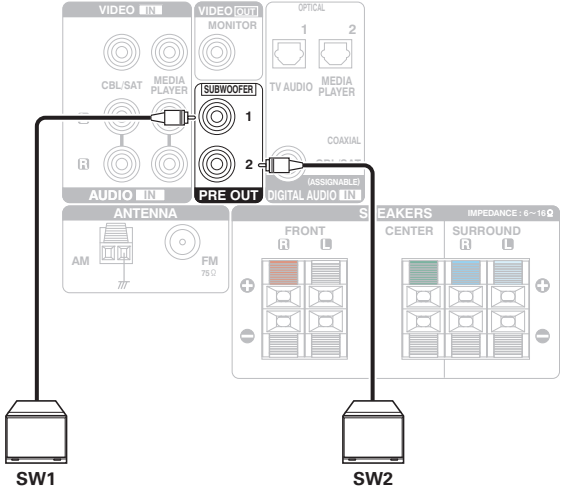
3 **Holding the lever on the speaker terminal, insert the core wire of the speaker cable all the way into the speaker terminal.**

4 **Release your finger from the lever on the speaker terminal.**

■ Connecting the subwoofer

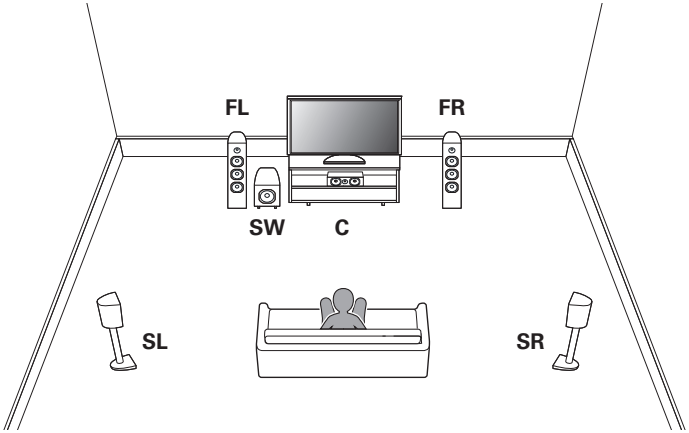
Use a subwoofer cable to connect the subwoofer. Two subwoofers can be connected to this unit.

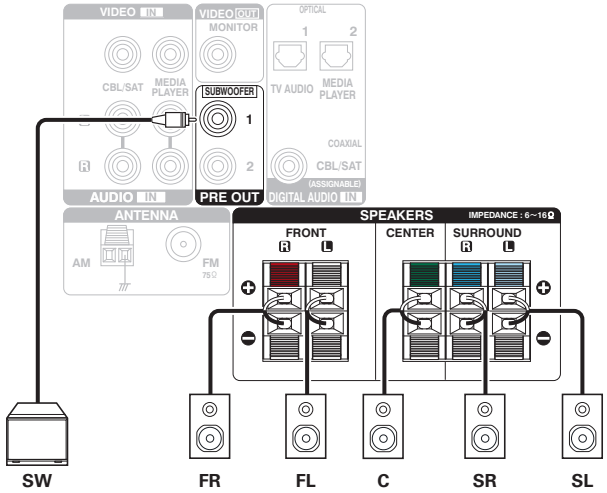
The same signal is output from the respective subwoofer terminals.



Standard speaker configuration and connection

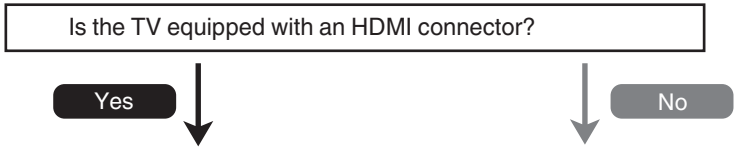
This serves as a basic 5.1-channel surround system.
Sound modes such as Dolby Pro Logic II are supported.





Connecting a TV

Connect a TV to this unit so that the input video is output to the TV. You can also enjoy audio from the TV on this unit.
How to connect a TV depends on the connectors and functions equipped on the TV.

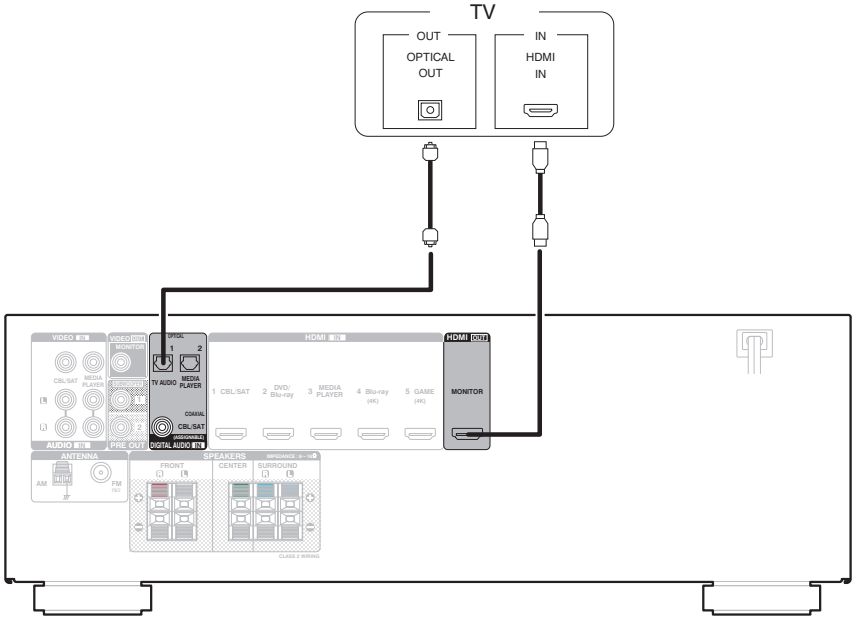


“Connection 1 : TV equipped with an HDMI connector” (☞ p. 26)

“Connection 2 : TV equipped without an HDMI connector” (☞ p. 27)

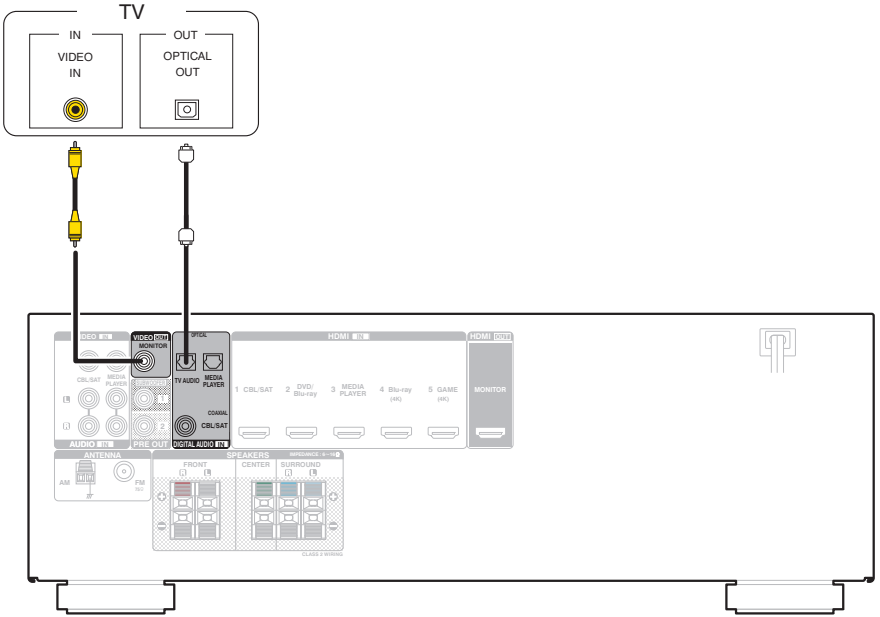
Connection 1 : TV equipped with an HDMI connector

Use an HDMI cable to connect the TV to this unit.
To listen to audio from TV on this unit, use an optical cable to connect the TV to this unit.



Connection 2 : TV equipped without an HDMI connector

Use a video cable to connect the TV to this unit.
To listen to audio from TV on this unit, use an optical cable to connect the TV to this unit.



Connecting a playback device

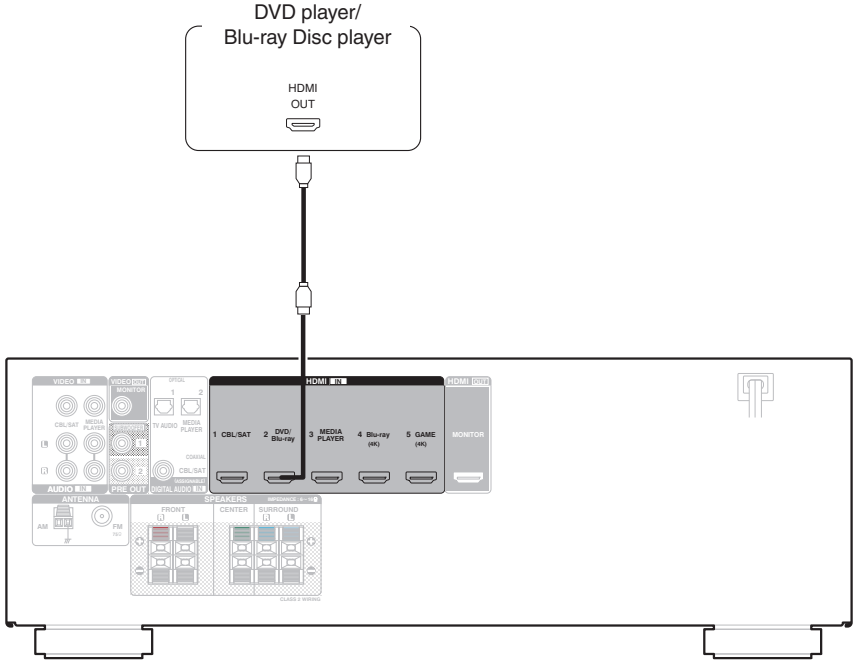
This unit is equipped with two types of video input connectors (HDMI and composite video) and two types of audio input connectors (digital audio, audio).
Select input connectors on this unit according to the connectors equipped on the device you want to connect.
If the device connected to this unit is equipped with an HDMI connector, it is recommended to use HDMI connections.
In the HDMI connection, audio and video signals can be transmitted through a single HDMI cable.

- “Connecting a DVD player or Blu-ray Disc player” (☞ p. 29)
- “Connecting a set-top box (Satellite tuner/cable TV)” (☞ p. 30)
- “Connecting a video camcorder or game console” (☞ p. 31)

- Connect devices to this unit as indicated by the input sources printed on the audio/video input connectors of this unit.
- The source that is assigned to the HDMI IN, DIGITAL AUDIO IN, VIDEO IN and AUDIO IN connectors can be changed. See “Input Assign” (☞ p. 75) on how to change the input source assigned to the input connectors.
- To play back audio signals that are input to this unit on a TV connected via HDMI, set “HDMI Audio Out” (☞ p. 73) to “TV”.

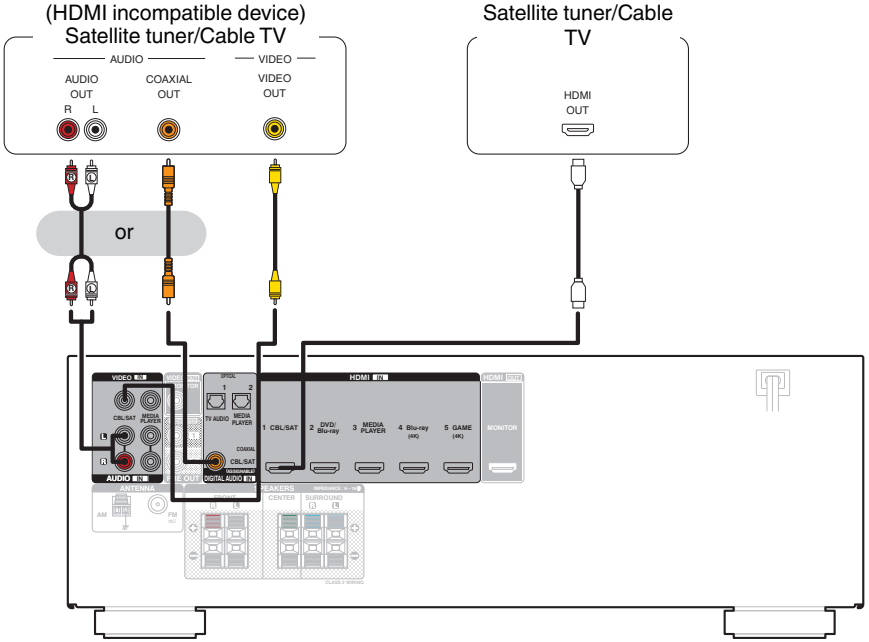
Connecting a DVD player or Blu-ray Disc player

This explanation uses the connection with a DVD player or Blu-ray disc player as an example.
When connecting a 4K compatible player, connect to either the HDMI 4 or HDMI 5 input connector.



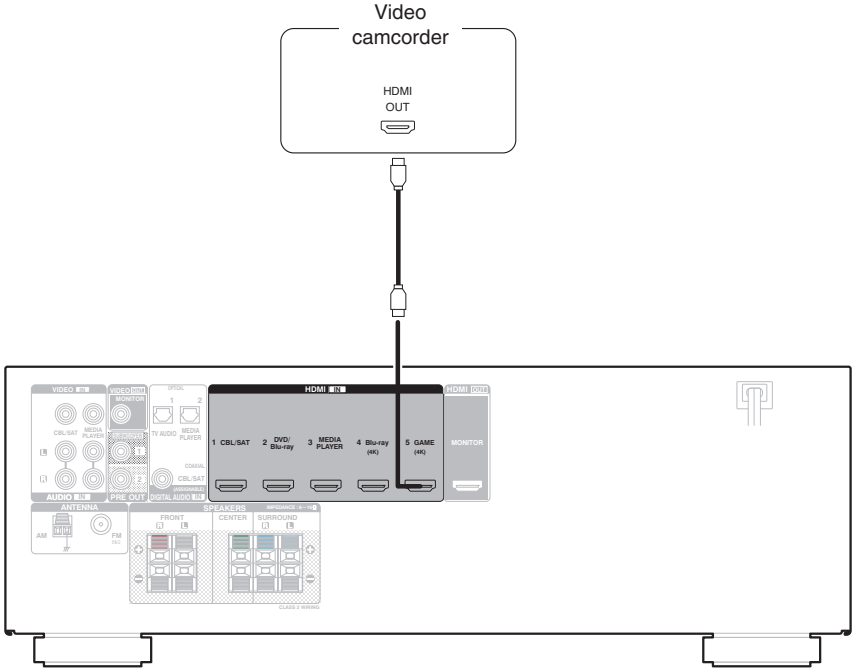
Connecting a set-top box (Satellite tuner/cable TV)

This explanation uses the connection with a satellite tuner/cable TV STB as an example.
Select the input connectors on this unit to match the connectors on the device that you want to connect to.



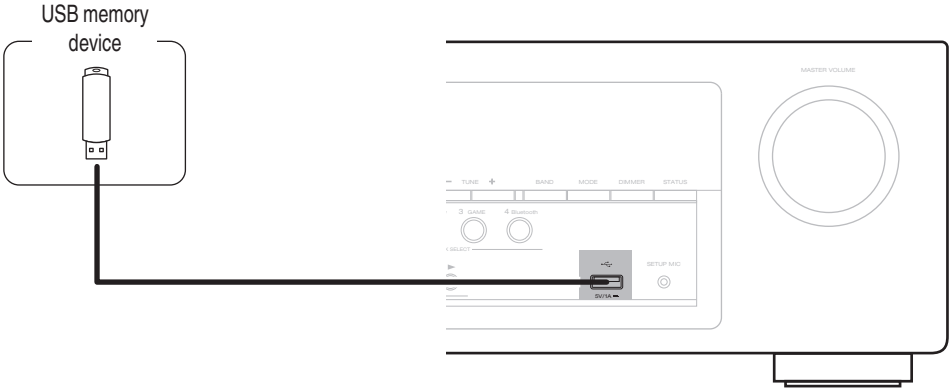
Connecting a video camcorder or game console

This explanation uses the connection with a video camcorders as an example.
Connect a playback device to this unit, such as a video camcorder or game console.



Connecting a USB memory device to the USB port

For operating instructions see “Playing a USB memory device” (☞ p. 39).



Denon does not guarantee that all USB memory devices will operate or receive power. When using a portable USB hard disk drive (HDD) which came with an AC adapter, use that device’s supplied AC adapter.

NOTE

- USB memory devices will not work via a USB hub.
- It is not possible to use this unit by connecting the unit’s USB port to a PC via a USB cable.
- Do not use an extension cable when connecting a USB memory device. This may cause radio interference with other devices.

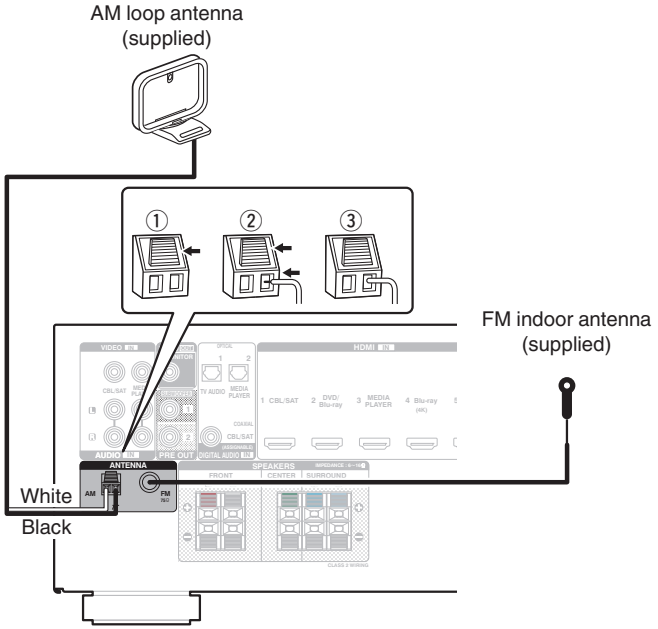
Connecting an FM/AM antenna

Connect the antenna, tune in to a broadcast and then move the antenna to the location where there is least noise. Then use tape, etc. to fix the antenna in this location. (“Listening to FM/AM broadcasts” (☞ p. 46))

If you are unable to receive a good broadcast signal, we recommend installing an outdoor antenna. For details, inquire at the retail store where you purchased the unit.

NOTE

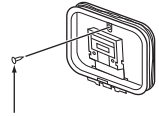
- Do not connect two FM antennas simultaneously.
- Make sure the AM loop antenna lead terminals do not touch metal parts of the panel.



■ Using the AM loop antenna

Suspending on a wall

Suspend directly on a wall without assembling.

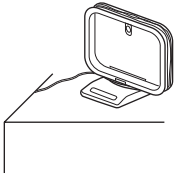


Nail, tack, etc.

Standing alone

Use the procedure shown above to assemble.

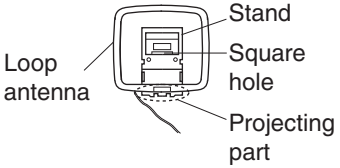
When assembling, refer to “AM loop antenna assembly”.

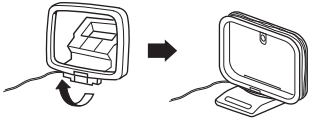


■ AM loop antenna assembly

1 **Put the stand section through the bottom of the loop antenna from the rear and bend it forward.**

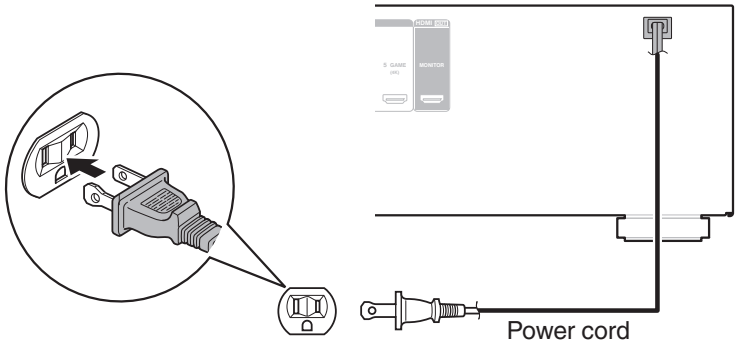
2 **Insert the projecting part into the square hole in the stand.**





Connecting the power cord

After completing all the connections, insert the power plug into the power outlet.



■ Contents

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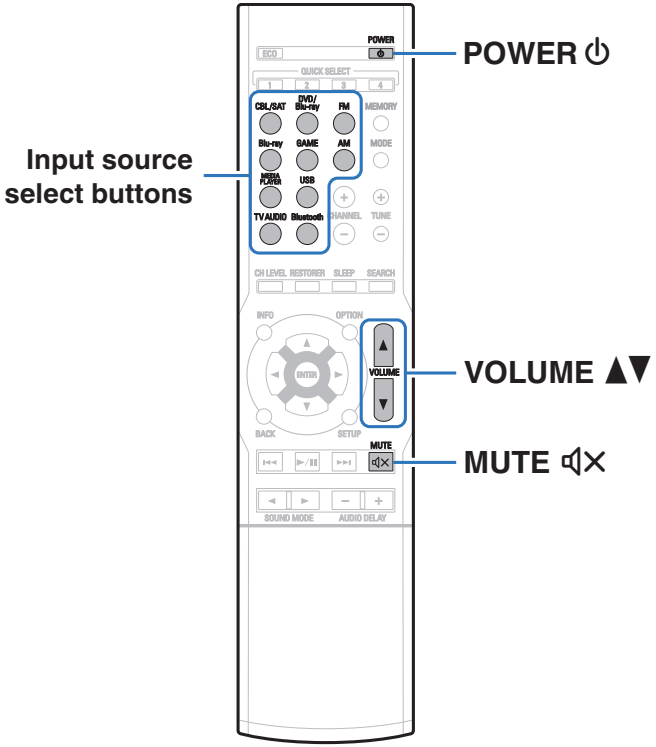
Basic operation



Turning the power on

1 Press POWER ⏻ to turn on power to the unit.

- You can press the input source select button when the unit is in standby mode to turn on the power.
- You can also switch the power to standby by pressing ⏻ on the main unit.

Selecting the input source

1 Press the input source select button to be played back.

The desired input source can be selected directly.

You can also select the input source by turning SOURCE SELECT on the main unit.

Adjusting the volume

1 Use VOLUME ▲▼ to adjust the volume.

- The variable range differs according to the input signal and channel level setting.
- You can also adjust the master volume by turning MASTER VOLUME on the main unit.

Turning off the sound temporarily (Muting)

1 Press MUTE 🔇.

- MUTE indicator on the display flashes.
- 🔇 appears on the TV screen.

- The sound is reduced to the level set at “Mute Level” (☞ p. 71) in the menu.
- To cancel mute, either adjust the sound volume or press MUTE 🔇 again.

Playback a DVD player/Blu-ray Disc player

The following describes the procedure for playing DVD player/Blu-ray Disc player.

1 Prepare for playback.

① Turn on the power of the TV, subwoofer and player.
② Change the TV input to the input of this unit.

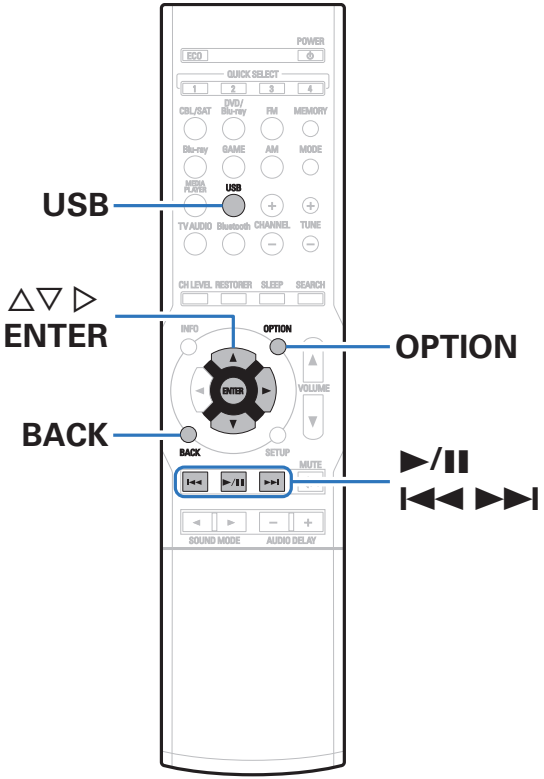
2 Press POWER ⏻ to turn on power to the unit.

3 Press DVD/Blu-ray (4K not supported) or Blu-ray (4K supported) to switch the input source of the player to be played back.

4 Play the DVD player or Blu-ray Disc player.

■ Surround playback (☞ p. 55)

Playing a USB memory device

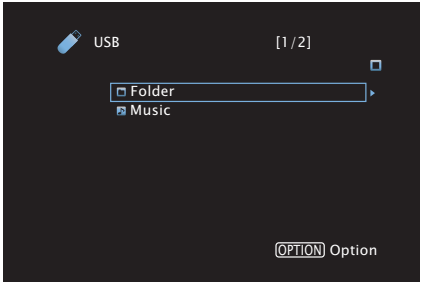


- Playing back music files stored on a USB memory device.
- Only USB memory devices conforming to mass storage class standards can be played on this unit.
- This unit is compatible with USB memory devices in “FAT16” or “FAT32” format.
- The audio format types and specifications supported by this unit for playback are as follows.
  See “Playback a USB memory device” for details. (☞ p. 106)
  - **WMA** (Windows Media Audio)
  - **MP3** (MPEG-1 Audio Layer-3)
  - **WAV**
  - **MPEG-4 AAC**
  - **FLAC** (Free Lossless Audio Codec)

Playing files stored on USB memory devices

1 **Connect the USB memory device to the USB port. (☞ p. 32)**

2 **Press USB to switch the input source to “USB”.**



3 **Use △▽▷ to select the file to be played, then press ENTER.**

Playback starts.

Operation buttons	Function
▶/II	Playback / Pause
⏮ ⏭	Skip to previous track / Skip to next track
	(Press and hold) Fast-reverse / Fast-forward
ENTER	Playback / Pause
	(Press and hold) Stop
△▽	Skip to previous track / Skip to next track
	(Press and hold) Fast-reverse / Fast-forward

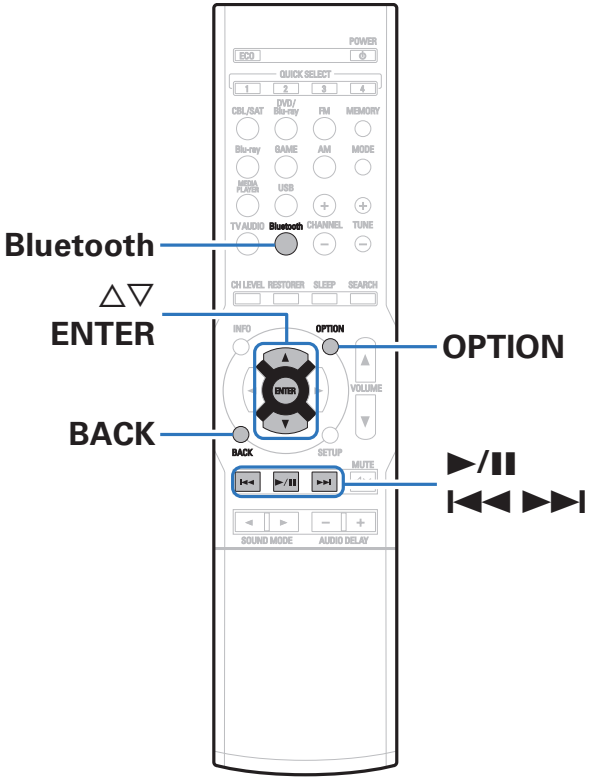
NOTE

Note that Denon will accept no responsibility whatsoever for any problems arising with the data on a USB memory device when using this unit in conjunction with the USB memory device.

■ Operations accessible through the option menu

- “Performing repeat playback (Repeat)” (☞ p. 51)
- “Performing random playback (Random)” (☞ p. 51)
- “Adjusting the tone (Tone)” (☞ p. 52)
- “Displaying your desired video during audio playback (Video Select)” (☞ p. 54)

Listening to music on a Bluetooth device



Music files stored on Bluetooth devices such as smartphones, digital music players, etc. can be enjoyed on this unit by pairing and connecting this unit with the Bluetooth device.

Communication is possible up to a range of about 32.8 ft/10 m.

NOTE

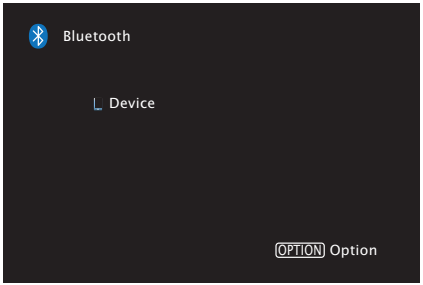
To play back music from a Bluetooth device, the Bluetooth device needs to support the A2DP profile.

Pairing with a Bluetooth device

In order to enjoy music from a Bluetooth device on this unit, the Bluetooth device must first be paired with this unit.

Once the Bluetooth device has been paired, it does not need to be paired again.

1 Press Bluetooth to switch the input source to “Bluetooth”.



When using for the first time, the unit will go into the pairing mode automatically and “Pairing Mode” will appear on the display of the unit.

2 Select this unit when its name appears in the list of devices displayed on the screen of the Bluetooth device.

At the end of the pairing, the device name appears on the display of this unit.

- Connect to the Bluetooth device while “Pairing Mode” is being displayed on the display of the unit.
  Perform the connection with the Bluetooth device close to the unit (about 3.3 ft/1 m).

- When connecting a second Bluetooth device, press and hold Bluetooth for approximately 3 seconds or select “Pairing Mode” from the options menu to pair the device. (☞ p. 44)
- Enter “0000” when the password is requested on the screen of the Bluetooth device.

Playing a Bluetooth device

Check the following before you play back music.

- The Bluetooth function of the Bluetooth device must be turned on
- Pairing must be completed

1 **Press Bluetooth to switch the input source to "Bluetooth".**

The unit will automatically connect to the most recently used Bluetooth device.

2 **Start playing the Bluetooth device.**

- The Bluetooth device can also be operated with the remote control of this unit.

Operation buttons	Function
▶/II	Playback / Pause
⏮ ⏭	Skip to previous track / Skip to next track
	(Press and hold) Fast-reverse / Fast-forward
ENTER	Playback / Pause
	(Press and hold) Stop
△ ▽	Skip to previous track / Skip to next track
	(Press and hold) Fast-reverse / Fast-forward

- When the power of this unit is turned on, the input source will be automatically switched to "Bluetooth" if a Bluetooth device is connected.
- English letters, numbers and certain symbols are displayed. Incompatible characters are displayed as "." (period).

NOTE

- To operate the Bluetooth device with the remote control of this unit, the Bluetooth device needs to support the AVRCP profile.
- The remote control of this unit is not guaranteed to work with all Bluetooth devices.
- Depending on the type of Bluetooth device, this unit outputs audio that is coupled to the volume setting on the Bluetooth device.

■ Operations accessible through the option menu

- “Pairing with the Pairing Mode” (☞ p. 44)
- “Performing repeat playback (Repeat)” (☞ p. 51)
- “Performing random playback (Random)” (☞ p. 51)
- “Adjusting the tone (Tone)” (☞ p. 52)
- “Displaying your desired video during audio playback (Video Select)” (☞ p. 54)

Pairing with the Pairing Mode

Pair a Bluetooth device with this unit.

1 **Press OPTION when the input source is “Bluetooth”.**

The option menu screen is displayed.

2 **Use △▽ to select “Pairing Mode”, then press ENTER.**

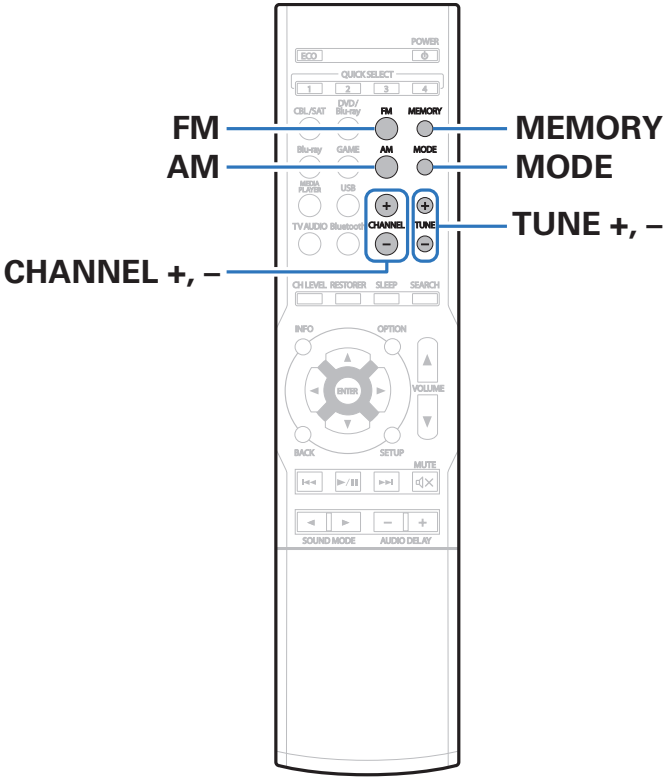
The device will go into the pairing mode.

3 **Select this unit when its name appears in the list of devices displayed on the screen of the Bluetooth device.**

At the end of the pairing, the device name appears on the display of this unit.

Enter “0000” when the password is requested on the screen of the Bluetooth device.

Listening to FM/AM broadcasts



You can use the built-in tuner of this unit to listen to FM broadcasts and AM broadcasts.
Make sure the FM antenna and AM loop antenna are connected to this unit first.

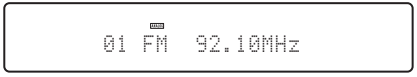
Listening to FM/AM broadcasts

1 **Connect the antenna. (“Connecting an FM/AM antenna” (☞ p. 33))**

2 **Use FM or AM to switch the input source to “FM” or “AM”.**

【TV screen】

【Display of this unit】



3 **Press MODE to select the tune mode, then press ENTER.**

AUTO (Default) **:**	Automatically search for and tune to a receivable radio station.
MANUAL:	Manually change the frequency one step at a time each time the button is pressed.

4 **Press TUNE + or TUNE - to select the station you want listen to.**

Scanning is performed until it finds an available radio station. When it finds a radio station, it stops the scan automatically and tunes in.

- In “AUTO” mode, you cannot tune in to radio stations if the reception is not good. If this is the case, then use the “MANUAL” mode to tune in.
- You can also scan the broadcast station by pressing TUNE + or TUNE - on the unit.

Operation buttons	Function
MEMORY	Register presets
MODE	Switching tune mode
TUNE +, -	Selects the radio station (up/down)
CHANNEL +, -	Selects preset radio stations

■ Operations accessible through the option menu

- “Tuning in to stations and presetting them automatically (Auto Preset)” (☞ p. 47)
- “Skipping preset broadcast stations (Preset Skip)” (☞ p. 49)
- “Adjusting the tone (Tone)” (☞ p. 52)
- “Displaying your desired video during audio playback (Video Select)” (☞ p. 54)

Tuning in to stations and presetting them automatically (Auto Preset)

A maximum of 56 radio stations can be automatically preset.

1 **Press OPTION when the input source is “FM”.**

The option menu screen is displayed.

2 **Use △▽ to select “Auto Preset”, then press ENTER.**

The unit starts to tune in to radio stations automatically and preset them.

- When presetting is completed, “Completed” is displayed for about 5 seconds and the option menu screen turns off.

The preset memory is overwritten.

Presetting the current broadcast station (Preset Memory)

Your favorite broadcast stations can be preset so that you can tune them in easily.
Up to 56 stations can be preset.

1 **Tune in the broadcast station you want to preset. (“Listening to FM/AM broadcasts” (☞ p. 46))**

2 **Press MEMORY.**

3 **Use △▽ to select the channel you want to preset.**

4 **Press MEMORY.**

The current broadcast station that is preset.

- To preset other stations, repeat steps 1 to 4.

Channel	Default settings
1 – 8	92.10 / 92.30 / 92.50 / 92.70 / 93.10 / 93.50 / 93.70 / 94.10 MHz
9 – 16	94.30 / 94.50 / 94.70 / 94.90 / 95.10 / 95.30 / 95.50 / 95.70 MHz
17 – 24	98.10 / 98.30 / 98.50 / 98.70 / 98.90 / 99.10 / 100.10 / 100.30 MHz
25 – 32	100.50 / 100.70 / 100.90 / 101.10 / 101.30 / 101.50 / 101.70 / 101.90 MHz
33 – 40	103.10 / 103.30 / 103.50 / 103.70 / 103.90 / 104.10 / 104.30 / 104.50 MHz
41 – 48	104.70 / 104.90 / 105.10 / 105.30 / 105.50 / 105.70 / 105.90 / 106.10 MHz
49 – 56	106.30 / 106.50 / 106.70 / 106.90 / 107.10 / 107.30 / 107.50 / 107.90 MHz

Listening to preset stations

1 **Use CHANNEL + or CHANNEL - to select the desired preset channel.**

You can also select preset broadcast stations by pressing TUNER PRESET CH + or TUNER PRESET CH - on the main unit.

Skipping preset broadcast stations (Preset Skip)

Perform auto preset memory to save all the broadcasting stations that can be received in the memory. Selecting a broadcast station becomes easier by skipping unnecessary memories.

1 **Press OPTION when the input source is “FM”.**

The option menu screen is displayed.

2 **Use △▽ to select “Preset Skip”, then press ENTER.**

The “Preset Skip” screen is displayed.

3 **Use △▽ to select the group of broadcast stations you want to skip.**

Skip all the broadcast stations that are included in the selected group “Preset ∗-∗”.

(∗ is the selected group number.)

4 **Use ◁ ▷ to select “Skip”.**

The station you selected is not displayed.

Cancelling Preset Skip

1 **While the Preset Skip screen is displayed, use ◁ ▷ to select a group containing a broadcast station to cancel the skip for.**

2 **Use △▽ to select a broadcast station to cancel the skip for.**

3 **Use ◁ ▷ to select “On”.**

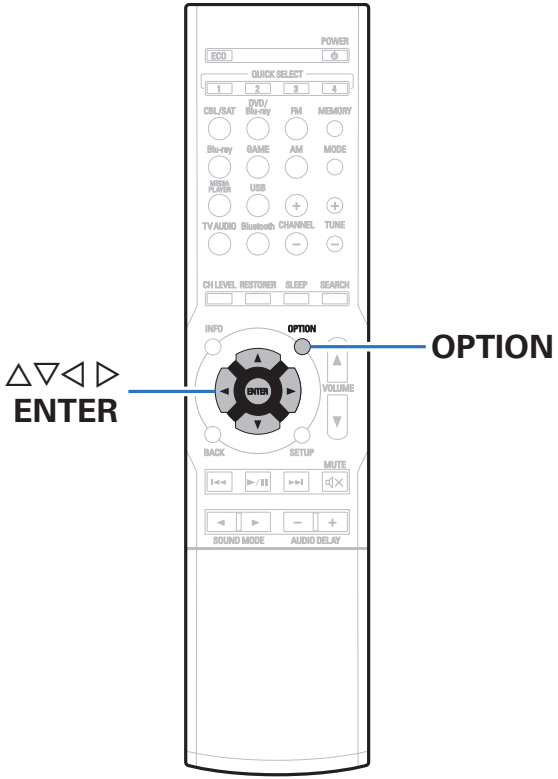
The skip is cancelled.

NOTE

Preset skip cannot be cancelled for groups.

Convenience functions

This section explains how to use convenient functions that can be used for each input source.



Performing repeat playback (Repeat)

❑ Supported input sources : USB / Bluetooth

1 **While content is playing, press OPTION.**

The option menu screen is displayed.

2 **Use △▽ to select “Repeat”, then press ENTER.**

3 **Use ◁ ▷ to select repeat playback mode.**

Off (Default)**:**	Repeat playback mode is canceled.
One:	A file being played is played repeatedly.
All:	All files in the folder currently being played are played repeatedly. (When the input source is set to “USB”)
Folder:	All files in the folder currently being played are played repeatedly. (When the input source is set to “Bluetooth”)

4 **Press ENTER.**

The display returns to the playback screen.

“Repeat” settings are stored for each input source.

Performing random playback (Random)

❑ Supported input sources : USB / Bluetooth

1 **While content is playing, press OPTION.**

The option menu screen is displayed.

2 **Use △▽ to select “Random”, then press ENTER.**

3 **Use ◁ ▷ to select random playback mode.**

Off (Default)**:**	Disable random playback.
On:	Randomly play back all tracks in the current playback folder.

4 **Press ENTER.**

The display returns to the playback screen.

- During random playback, each time playback of a track is completed, another track is randomly selected for playback from tracks in the folder. Therefore, it’s possible that you may hear a track played back more than once during random playback.
- “Random” settings are stored for each input source.

Adjusting the tone (Tone)

Adjusts the tonal quality of the sound.

1 **Press OPTION.**

The option menu screen is displayed.

2 **Use △▽ to select “Tone”, then press ENTER.**

The tone control screen is displayed.

3 **Use ◁ ▷ to set the tone control function to on/off.**

On:	Allow tone adjustment (bass, treble).
Off (Default)**:**	Playback without tone adjustment.

4 **Select “On” in step 3 and press ▽ to select the sound range to be adjusted.**

Bass:	Adjust bass.
Treble:	Adjust treble.

5 **Use ◁ ▷ to adjust the tone, then press ENTER.**

-6 dB – +6 dB (Default : 0 dB)

■ Operating the unit

❑ Setting the tone control function

Press TONE CONTROL ON/OFF.

❑ Select the range for which to adjust the tone.

Press BASS/TREBLE.

❑ Adjusting the tone

Press ADJUST ◄ or ADJUST ►.

- “Tone” settings are stored for each input source.
- This cannot be set when the sound mode is set to “Direct”.
- You cannot set this when no audio signal is input or in the menu “HDMI Audio Out” (☞ p. 73) is set to “TV”.

Optimizing the night time listening volume (Night Mode)

Compress dynamic range (difference between loud and soft sounds). This can be set when a Dolby Digital signal is input.

1 **Press OPTION.**

The option menu screen is displayed.

2 **Use △▽ to select “Night Mode”, then press ENTER.**

The Night Mode setting screen is displayed.

3 **Use ◁ ▷ to select “Night Mode”, then press ENTER.**

Low :	Set the adjusted value to low.
Medium :	Set the adjusted value to middle.
High :	Set the adjusted value to high.
Auto :	Automatic dynamic range compression on/off control according to the source.
Off (Default)**:**	Do not set.

- “Auto” can be set when a Dolby TrueHD signal is input.
- The default setting is “Off”. The default setting when the input signal is Dolby TrueHD is “Auto”.

Displaying your desired video during audio playback (Video Select)

This unit can display video from a different source on TV during audio playback. You can set this for each input source.

❑ Supported input sources : USB / FM / AM / Bluetooth

1 **Press OPTION during audio playback.**

The option menu screen is displayed.

2 **Use △▽ to select “Video Select”, then press ENTER.**

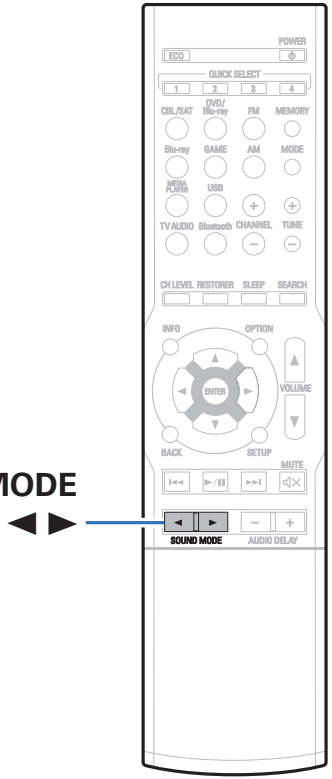
3 **Use ◁ ▷ to select the Video Select mode.**

Off (Default)**:**	Disable Video Select mode.
On:	Enable Video Select mode.

4 **Use ◁ ▷ to select the input source for video you want to play back, then press ENTER.**

“Video Select” settings are stored for each input source.

Selecting a sound mode



This unit allows you to enjoy various kinds of surround and stereo playback modes.
Multi-channel audio formats are provided on popular movie and music disc formats such as Blu-ray and DVD, as well as being supported by digital broadcasting, and even by streaming movies.
This unit supports playback of almost all of these multi-channel audio formats. It also supports surround playback of audio formats other than multi-channel audio such as 2-channel stereo audio.

For audio formats recorded on a disc, see the disc jacket or label.

Selecting a sound mode

1 Press SOUND MODE ◄ ► to select a sound mode.

- If the content played back does not support the previously selected sound mode, the most appropriate sound mode for the content is automatically selected.
- You can also select the sound mode by pressing SOUND MODE on the main unit.

■ Description of sound mode types

Dolby sound mode

Sound mode type	Description
Dolby PLII	This mode can be selected when the Dolby PLII decoder is used to play back 2-channel sources in 5.1-channel surround sound with an enveloping surround sound experience.
Dolby Digital	This mode can be selected when playing sources recorded in Dolby Digital.
Dolby TrueHD	This mode can be selected when playing sources recorded in Dolby TrueHD.
Dolby Digital Plus	This mode can be selected when playing sources recorded in Dolby Digital Plus.

DTS sound mode

Sound mode type	Description
DTS Neo:6	This mode can be selected when a DTS Neo:6 decoder is used to play back 2-channel source in 5.1-channel surround sound.
DTS Surround	This mode can be selected when playing sources recorded in DTS.
DTS 96/24	This mode can be selected when playing sources recorded in DTS 96/24.
DTS-HD	This mode can be selected when playing sources recorded in DTS-HD.
DTS Express	This mode can be selected when playing sources recorded in DTS Express.

PCM multi-channel sound mode

Sound mode type	Description
Multi Ch In	This mode can be selected when playing multi-channel PCM sources.

Original sound mode

Sound mode type	Description
Multi Ch Stereo	This mode is for enjoying stereo sound from all speakers. Stereo audio (2-channel) sources are played back via the front (L/R) speakers, the surround speakers
Virtual	This mode lets you experience an expansive surround sound effect when playing back through just the front (L/R) speakers only, and when listening with stereo headphones.

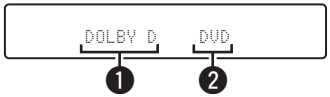
Stereo sound mode

Sound mode type	Description
Stereo	This mode plays 2-channel stereo audio with no additional surround sound processing. • Sound is output from the front left and right speakers, and subwoofer if connected. • When multi-channel signals are inputted, they are mixed down to 2-channel audio and are played back with no additional surround sound processing.

Direct sound mode

Sound mode type	Description
Direct	This mode plays back audio as recorded in the source.

■ Views on the display

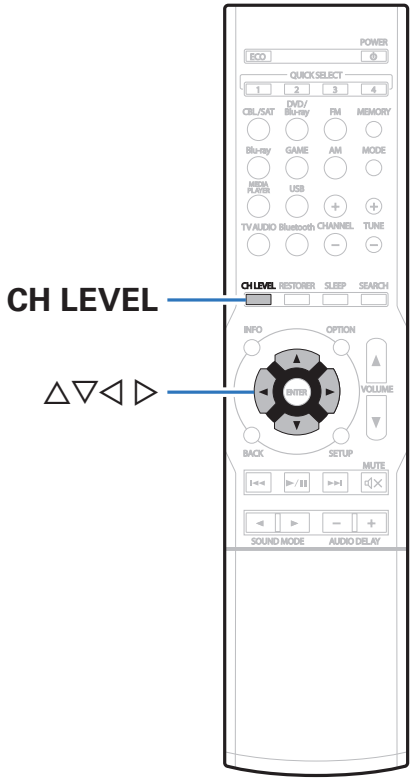


1 Shows a decoder to be used.

- In the case of the Dolby Digital decoder, "DOLBY D" is displayed.
- In the case of the Dolby Digital Plus decoder, "DD +" is displayed.

2 Shows the name of the input source being played back.

Adjusting the volume of each channel to match the input source (Ch Level Adjust)



The volume of each channel can be changed while listening to music. You can set this for each input source.

1 **Press CH LEVEL.**

The channel level adjust screen is displayed.

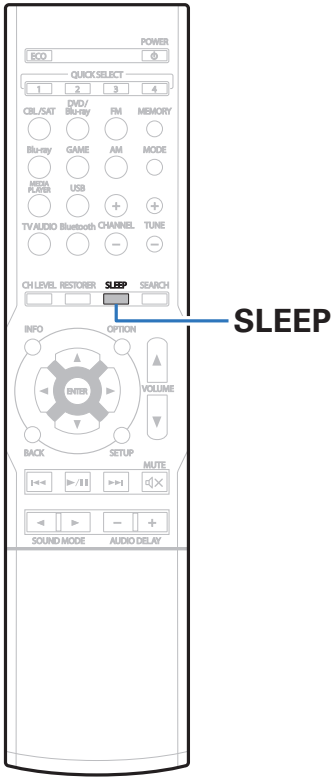
2 **Use △▽ to select the channel that you wish to adjust.**

3 **Use ◁ ▷ to adjust the volume, then press ENTER.**

–12.0 dB – +12.0 dB (Default : 0 dB)

- Select “Reset” and press ENTER if you want to restore the adjustment values of the various channels to “0 dB” (default).
- Headphone volume can be adjusted when a headphone is connected.
- “Ch Level Adjust” settings are stored for each input source.
- You can only set this for speakers that output audio. In addition, you cannot set this when in the menu “HDMI Audio Out” is set to “TV”. (☞ p. 73)

Sleep timer function



You can have the power automatically switched to standby once a set time has elapsed. This is convenient for viewing and listening while going to sleep.

Using the sleep timer

1 Press SLEEP and display the time you want to set.

- The SLEEP indicator lights up on the display and the sleep timer starts.
- You can set the sleep timer in the range from 10 to 120 minutes in steps of 10 minutes.

■ Checking the remaining time

Press SLEEP when the sleep timer is in operation.
The remaining time appears on the display.

■ To cancel the sleep timer

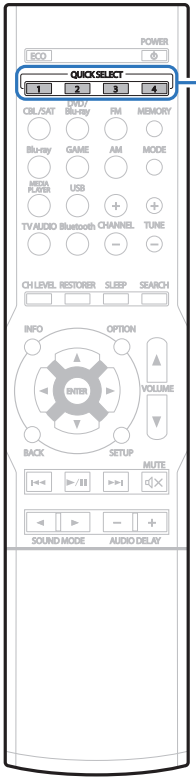
Press SLEEP to select “Off”.
The SLEEP indicator on the display turns off.

The sleep timer setting is canceled when the unit switches to standby mode.

NOTE

The sleep timer function cannot turn off the power of devices connected to this unit. To turn off the power of those connected devices, set up sleep timers on the connected devices themselves.

Quick select plus function



Settings such as the input source, volume level and sound mode can be registered to the QUICK SELECT 1 - 4 buttons.

You can simply press one of the registered QUICK SELECT buttons in subsequent playbacks to switch to the group of saved settings in a batch.

By saving frequently used settings at the QUICK SELECT 1 – 4 buttons, you will always be able to easily call up the same playback environment.

This can be also operated by pressing the QUICK SELECT button on the main unit.

Calling up the settings

1 Press QUICK SELECT.

The Quick Select settings registered to the button you pressed are called up.

- The default settings for the input source and volume are as shown below.

Button	Input source	Volume
QUICK SELECT 1	CBL/SAT	40
QUICK SELECT 2	DVD/Blu-ray	40
QUICK SELECT 3	Game	40
QUICK SELECT 4	Bluetooth	40

Changing the settings

1 Set the items below to the settings you want to register.

① Input source (☞ p. 37)
② Volume (☞ p. 38)
③ Sound mode (☞ p. 55)
④ Video Select settings (☞ p. 54)

2 Press and hold the desired QUICK SELECT until “Quick∗ Memory” appears on the display.

The current settings will be memorized.

∗ is displayed the number for the QUICK SELECT button you pressed.

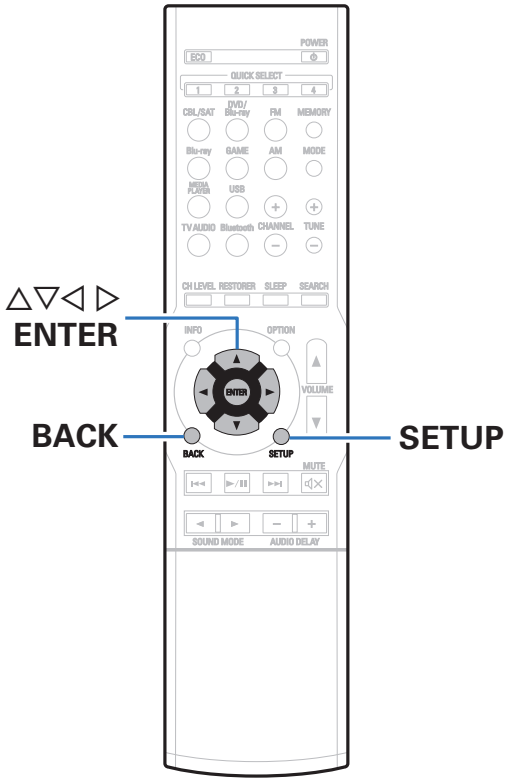
Menu map

When using menu operations, connect this unit to a TV and operate this unit while viewing the TV.
The recommended settings are configured for this unit by default. You can customize this unit based on your existing system and your preferences.

Setting items	Detailed items	Description	Page
Audio	**Surr.Parameter**	Adjusts surround sound parameters.	67
	Restorer	Expands the low and high frequency components of compressed audio content such as MP3 files to enable richer audio playback.	70
	Audio Delay	Compensates for incorrect timing between video and audio.	71
	Volume	Make volume settings.	71
	Room EQ	Set whether to use the equalizer or not.	72
Video	**HDMI Audio Out**	Select HDMI audio output device.	73
	HDMI PassThrough	Selects how this unit will pass HDMI signals to the HDMI output in standby power mode.	73
	Pass Source	Sets the HDMI connector that inputs HDMI signals when in standby.	74

Setting items	Detailed items	Description	Page
Inputs	**Input Assign**	Changes input connector assignment.	75
	Source Level	Adjusts the playback level of the audio input.	75
	Input Select	Sets the audio input mode and decode mode.	76
Speakers	**Auto Setup**	The acoustic characteristics of the connected speakers and listening room are measured and the optimum settings are made automatically.	77
	Manual Setup	Sets up the speakers manually or changes the Auto Setup settings.	82

Setting items	Detailed items	Description	Page
General	**Language**	Changes the language of the display on the TV screen.	86
	ECO	Configures the ECO Mode and Auto Standby energy-saving functions.	86
	BluetoothStandby	Sets whether or not to turn the unit's power on when a Bluetooth device is operated.	87
	Front Display	Makes settings related to the display on this unit.	88
	Firmware	Update the firmware of this unit.	88
	Setup Lock	Protects settings from inadvertent changes.	88
Setup Assistant	**Begin Setup...**	Performs basic installation/connections/settings from the beginning according to the guidance indicated on the TV screen.	Page 8 of the separate manual "Quick Start Guide"



Menu operations

1 **Press SETUP.**

The menu is displayed on the TV screen.

2 **Use △▽ to select the menu to be set or operated, then press ENTER.**

3 **Use ◁ ▷ to change to desired setting.**

4 **Press ENTER to enter the setting.**

- To return to the previous item, press BACK.
- Exiting the Menu, press SETUP while the menu is displayed. The menu display disappears.

Audio

Make audio-related settings.

Surr.Parameter

You can adjust the surround audio sound field effects to match your preferences.
The items (parameters) that can be adjusted depend on the signal being input and the currently set sound mode. For details on the adjustable parameters, see “Sound modes and surround parameters” (☞ p. 110).

- Some setting items cannot be set while playback is stopped. Make the settings during playback.
- “Surr.Parameter” settings are stored for each sound mode.

■ Mode

Set the sound mode according to the input signal.

❑ Dolby PLⅡ Mode

Cinema :	Switches to the sound mode suitable for enjoying movies and TV programs.
Music :	Switches to the sound mode suitable for enjoying music.
Game :	Switches to the sound mode suitable for enjoying games.
Pro Logic :	Dolby Pro Logic playback mode.

❑ DTS Neo: 6 mode

Cinema :	Switches to the sound mode suitable for enjoying movies and TV programs.
Music :	Switches to the sound mode suitable for enjoying music.

“Music” mode is also effective for video sources that contain a lot of stereo music.

Dynamic Comp.

Compress dynamic range (difference between loud and soft sounds).

Auto:	Automatic dynamic range compression on/off control according to source.
Low / Medium / High:	These set the compression level.
Off:	Dynamic range compression is always off.

"Auto" can only be set when Dolby TrueHD signals are input.

Low Frequency

Adjust the low frequency effects level (LFE).

-10 dB – 0 dB (Default : 0 dB)

For proper playback of the different sources, we recommend setting to the values below.

- Dolby Digital sources : 0 dB
- DTS movie sources : 0 dB
- DTS music sources: −10 dB

Center Image

Distributes the dialogue output from the center channel to the front left and right channels and widens the sound image in the front.

0.0 – 1.0 (Default : 0.3)

- You can set this when the sound mode is DTS Neo:6 in the "Music" mode.
- The smaller the value, the more dialogue is concentrated on the center channel. The larger the value, the more dialogue is distributed to front left and right channels, and the more the sound image widens in the front.

Panorama

The front sound field is expanded further towards the back to create a seamlessly inclusive sound impression.

On:	Use “Panorama”.
Off (Default)**:**	Do not use “Panorama”.

You can set this when the sound mode is Dolby PLII in the “Music” mode.

Dimension

Shift sound image center to front or rear to adjust playback balance.

0 – 6 (Default : 3)

- You can set this when the sound mode is Dolby PLII in the “Music” mode.
- As you set a smaller number, the surround sound field shifts backward; as you set a larger number, the surround sound field shifts forward.

Center Width

Distributes the dialogue output from the center channel to left and right channels and widens the sound image in the front.

0 – 7 (Default : 3)

- You can set this when the sound mode is Dolby PLII in the “Music” mode.
- The smaller the value, the more dialogue is concentrated on the center channel. The larger the value, the more dialogue is distributed to front left and right channels, and the more the sound image widens in the front.

■ Subwoofer

Turn subwoofer output on and off.

On (Default)**:**	The subwoofer is used.
Off:	The subwoofer is not used.

This can be set when the surround mode is set to “Direct” or “Stereo”.

■ Set Defaults

The “Surr.Parameter” settings are returned to the default settings.

Restorer

Compressed audio formats such as MP3, WMA (Windows Media Audio) and MPEG-4 AAC reduce the amount of data by eliminating signal components that are hard for the human ear to hear. The “Restorer” function generates the signals eliminated upon compression, restoring the sound to conditions near those of the original sound before compression. It also restores the original bass characteristics for a rich and expanded tonal range.

On:	Use “Restorer”.
Off (Default)**:**	Do no use “Restorer”.

- This item can be set with analog signals or PCM signal (Sample Rate = 44.1/48 kHz) is input.
- This cannot be set when the sound mode is set to “Direct”.
- “Restorer” settings are stored for each input source.
- The “Restorer” settings can be set even if RESTORER is pressed on the remote control unit.

Audio Delay

Compensates for incorrect timing between video and audio.

0 ms – 200 ms (Default : 0 ms)

- "Audio Delay" settings are stored for each input source.
- The "Audio Delay" settings can be set even if AUDIO DELAY + or AUDIO DELAY - is pressed on the remote control unit.

Volume

Make volume settings.

■ Scale

Set how volume is displayed.

0 - 98 (Default)**:**	Display in the range 0 (Min) to 98.
–79.5 dB - 18.0 dB:	Display ---dB (Min), in the range –79.5 dB to 18.0 dB.

■ Limit

Make a setting for maximum volume.

60 (–20 dB) / 70 (–10 dB) / 80 (0 dB)

Off (Default)

The dB value is displayed when the "Scale" setting is "Relative".

■ Power On Level

Define the volume setting that is active when the power is turned on.

Last (Default)**:**	Use the memorized setting from the last session.
Mute:	Always use the muting on condition when power is turned on.
1 - 98 (–79 dB - +18 dB):	The volume is adjusted to the set level.

■ Mute Level

Set the amount of attenuation when muting is on.

Full (Default)**:**	The sound is muted entirely.
–40 dB :	The sound is attenuated by 40 dB down.
–20 dB :	The sound is attenuated by 20 dB down.

Room EQ

Set whether to use the equalizer or not.

On:	Use “Room EQ”.
Off (Default)**:**	Do no use “Room EQ”.

Speakers for which “Room EQ” can be set differ according to the sound mode.

Video

Make video-related settings.

HDMI Audio Out

Select HDMI audio output device.

AVR (Default)**:**	Play back through speakers connected to the unit.
TV:	Play back through TV connected to the unit.

When the power of this unit is on and “HDMI Audio Out” is set to “TV”, audio is output as 2-channel from the HDMI OUT connector.

HDMI PassThrough

Selects how this unit will transmit HDMI signals to the HDMI output in standby power mode.

On (Default)**:**	Transmits the selected HDMI input through the AV receiver’s HDMI output when this unit is in standby power mode.
Off:	No HDMI signals are transmitted through this unit’s HDMI output in standby power mode.

NOTE

When “HDMI PassThrough” is set to “On”, the unit consumes more standby power. If you are not using this unit for an extended period, it is recommended that you unplug the power cord from the power outlet.

Pass Source

Sets the HDMI connector that inputs HDMI signals when in standby.

Last:	The most recently used input source will go into standby mode.
CBL/SAT / DVD/Blu-ray / Game / Media Player (Default : CBL/SAT)**:**	Pass through the selected input source.

“Pass Source” can be set when “HDMI PassThrough” is set to “On”.

Inputs

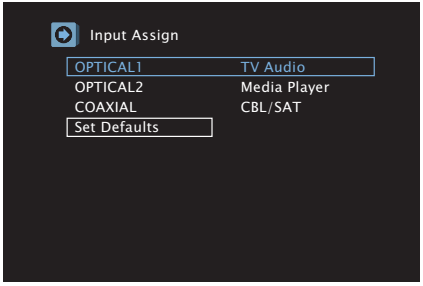
Perform settings related to input source playback.

You do not have to change the settings to use the unit. Make settings when needed.

Input Assign

By making connections as indicated by the input sources printed on the audio/video input connectors of this unit, you can just press one of the input source select buttons to easily play back audio or video from a connected device.

Please change the assignment of the digital audio input connectorl when connecting an input source that differs from that printed to the audio/video input terminals of this unit.



By default, each item is set as follows.

Input source / Input connector	CBL/ SAT	DVD/ Blu-ray	Media Player	Blu-ray	Game	TV Audio
OPTICAL1						○
OPTICAL2			○			
COAXIAL	○					

■ Set Defaults

The “Input Assign” settings are returned to the default settings.

Source Level

This function corrects the playback level of the selected input source’s audio input.

Make this setting if there are differences in the input volume levels between the different sources.

-12 dB – +12 dB (Default : 0 dB)

“Source Level” settings are stored for each input source.

Input Select

Set the audio input mode and decode mode of each input source.
The input modes available for selection may vary depending on the input source.

"Input Select" settings are stored for each input source.

■ Input Mode

Set the audio input modes for the different input sources.
It is normally recommended to set the audio input mode to "Auto".

Auto (Default)**:**	Automatically detect input signal and perform playback.
HDMI:	Play only signals from HDMI input.
Digital:	Play only signals from digital audio input.
Analog:	Play only signals from analog audio input.

When digital signals are properly input, the DIG. indicator lights on the display. If the DIG. indicator does not light, check "Input Assign" and the connections. (☞ p. 75)

■ Decode Mode

Set the audio decode mode for input source.
It is normally recommended to set the audio input mode to "Auto". But we recommend changing it to "PCM" or "DTS" if the start of the source is clipped or noise occurs.

Auto (Default)**:**	Detect type of digital audio input signal and decode and play automatically.
PCM:	Decode and play only PCM input signals.
DTS:	Decode and play only DTS input signals.

This item can be set for input sources for which "COAXIAL", "OPTICAL1" or "OPTICAL2" is assigned at "Input Assign" (☞ p. 75).

Speakers

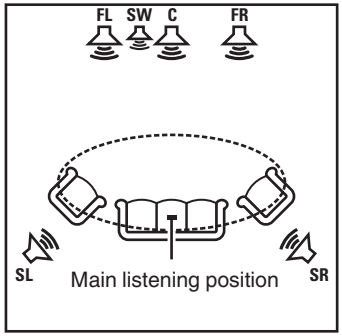
The acoustic characteristics of the connected speakers and listening room are measured and the optimum settings are made automatically. This is called “Auto Setup”.

You do not have to perform “Auto Setup” when you have already performed “Speaker Setup” in “Setup Assistant”.

To set up the speakers manually, use “Manual Setup” on the menu. (☞ p. 82)

Auto Setup

To perform measurement, place the Sound calibration microphone in the main listening position.



FL Front speaker (L)
FR Front speaker (R)
C Center speaker
SW Subwoofer
SL Surround speaker (L)
SR Surround speaker (R)

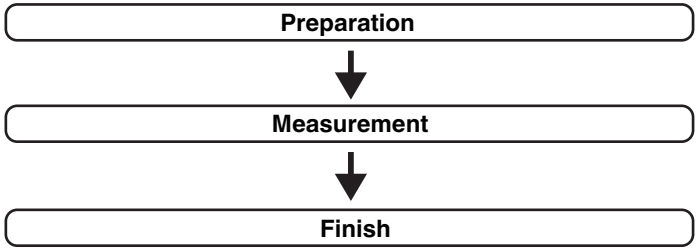
■ About the main listening position

The main listening position is the position where listeners would normally sit or where one would normally sit alone within the listening environment. Before starting “Auto Setup”, place the Sound calibration microphone in the main listening position.

NOTE

- Make the room as quiet as possible. Background noise can disrupt the room measurements. Close windows and turn off the power on electronic devices (radios, air conditioners, fluorescent lights, etc.). The measurements could be affected by the sounds emitted by such devices.
- During the measurement process, place cell phones outside the listening room. Cell phone signals could disrupt the measurements.
- Do not stand between the speakers and Sound calibration microphone or allow obstacles in the path while the measurements are being made. Also, install the Sound calibration microphone at least 20 inches (50 cm) away from the wall. Failure to do so will result in inaccurate readings.
- During the measurement process, audible test tones will come from the speakers and subwoofer(s), but this is part of normal operation. If there is background noise in the room, these test signals will increase in volume.
- Measurement cannot be performed when headphones are connected. Unplug the headphones before performing “Auto Setup”.

Procedure for speaker settings (Auto Setup)



1 Mount the Sound calibration microphone on a tripod and place it in the main listening position.

When installing the Sound calibration microphone, point the tip of the microphone toward the ceiling and adjust the height to match the height of the ears of a listener in a seated position.

2 If using a subwoofer capable of the following adjustments, set up the subwoofer as shown below.

❑ When using a subwoofer with a direct mode

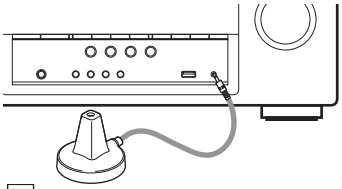
Set the direct mode to “On” and disable the volume adjustment and crossover frequency setting.

❑ When using a subwoofer without a direct mode

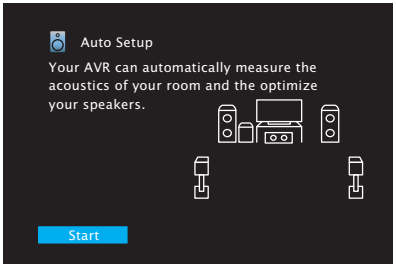
Make the following settings:

- Volume : 12 o’clock position
- Crossover frequency : Maximum/Highest Frequency
- Low pass filter : Off
- Standby mode : Off

3 **Connect the Sound calibration microphone to the SETUP MIC jack of this unit.**



When the Sound calibration microphone is connected, the following screen is displayed.



4 **Select “Start”, then press ENTER.**

5 **Select “Next”, then press ENTER.**

6 **Select “Begin Test”, then press ENTER.**

- Measurement requires several minutes.

NOTE

If “Caution!” is displayed on TV screen:
Go to “Error messages” (☞ p. 81). Check any related items, and perform the necessary procedures.

❑ To cancel Auto Setup

① Press BACK to display the popup screen.
② Press ◁ to select “Yes”, then press ENTER.

7 **Unplug the Setup and measurement microphone from the unit’s SETUP MIC jack.**

Do not change the speaker connection or subwoofer volume after “Auto Setup”. If these are changed, run “Auto Setup” again in order to configure the optimum equalizer settings.

Error messages

An error message is displayed if “Auto Setup” could not be completed due to speaker placement, the measurement environment, etc. If an error message is displayed, perform the necessary measures. Be sure to turn off the power before checking speaker connections.

Examples	Error details	Measures
Front L: None	• The displayed speaker could not be detected.	• Check the connections of the displayed speaker.

Manual Setup

Perform when setting the speakers manually or when changing settings made in “Auto Setup”.

- “Manual Setup” can be used without changing the settings. Please set if necessary.

Speaker Config.

Select whether or not speakers are present, playback capacity for low bass frequencies and speaker size.

■ Front

Set the front speaker size.

Large:	Use a large speaker that can adequately play back very low bass frequencies.
Small (Default)**:**	Use a small speaker that has inadequate playback capacity for very low bass frequencies.

- When “Subwoofer” is set to “No”, “Front” is automatically set to “Large”.
- When “Front” is set to “Small”, “Center” and “Surround” can not be set to “Large”.

Center

Set the presence and size of the center speaker.

Large:	Use a large speaker that can adequately play back very low bass frequencies.
Small (Default)**:**	Use a small speaker that has inadequate playback capacity for very low bass frequencies.
None:	Select when a center speaker is not connected.

Subwoofer

Set the presence of a subwoofer.

Yes (Default)**:**	Use a subwoofer.
No:	Select when a subwoofer is not connected.

Surround

Set the presence and size of the surround speakers.

Large:	Use a large speaker that can adequately play back very low bass frequencies.
Small (Default)**:**	Use a small speaker that has inadequate playback capacity for very low bass frequencies.
None:	Select when the surround speakers are not connected.

Distances

Set distance from listening position to speakers.
Measure beforehand the distance from the listening position to each speaker.

Step

Set the unit of distance.

1 ft / 0.1 ft (Default : 1 ft)

Set Defaults

The “Distances” settings are returned to the default settings.

Set the distance

0.0 ft – 60.0 ft

- The speakers that can be selected differ depending on the “Speaker Config.” settings. (☞ p. 82)
- Default settings :
  Front L / Front R / Center / Subwoofer:12.0 ft
  Surround L / Surround R:10.0 ft
- Set the difference in the distance between the speakers to less than 20.0 ft.

Levels

Set the volume of the test tone to be the same at the listening position when it is output from each speaker.

■ Test Tone Start

A test tone is output from the selected speaker.
While listening to the test tone, adjust the volume output from the selected speaker.

–12.0 dB – +12.0 dB (Default : 0.0 dB)

- The set “Levels” are reflected in all sound modes.
- When headphones are connected to the PHONES connector on this unit, you cannot set “Levels”.

■ Set Defaults

The “Levels” settings are returned to the default settings.

Crossovers

Set in accordance with the lower limit frequency of the base frequencies that can be played back through each speaker.

■ Set the crossover frequency

40 Hz / 60 Hz / 80 Hz / 90 Hz / 100 Hz / 110 Hz / 120 Hz / 150 Hz / 200 Hz / 250 Hz
(Default : 80 Hz)

- “Crossovers” can be set when the “Subwoofer Mode” setting is “LFE+Main”, or when you have a speaker that is set to “Small”. (☞ p. 85)
- The default crossover frequency is “80 Hz”, which will work best with the widest variety of speakers. We recommend setting to a higher frequency that the crossover frequency when small speakers are used. For example, set to “250 Hz” when the frequency range of the speakers is 250 Hz – 20 kHz.
- Sounds below crossover frequency is cut off in the output from the speaker set up in “Small”. The cut off bass frequencies is output from the sub-woofer or front speaker.

Bass

Set subwoofer and LFE signal range playback.

■ LPF for LFE

Set LFE signal playback range. Set this when you want to change the playback frequency (low pass filter point) of the subwoofer.

80 Hz / 90 Hz / 100 Hz / 110 Hz / 120 Hz/ 150 Hz / 200 Hz / 250 Hz (Default: 100 Hz)

■ Subwoofer Mode

Select low range signals to be reproduced by subwoofer.

LFE:	The low range signal of the channel set to “Small” speaker size is added to the LFE signal output from the subwoofer.
LFE+Main (Default)**:**	The low range signal of all channels is added to the LFE signal output from the subwoofer.

- “Subwoofer Mode” can be set when “Speaker Config.” - “Subwoofer” (☞ p. 83) is set to other than “No”.
- Play music or a movie source and select the mode offering the strongest bass.
- If “Speaker Config.” - “Front” and Center are set to “Large”, and “Subwoofer Mode” is set to “LFE”, no sound may be output from the subwoofers, depending on the input signal or selected sound mode. (☞ p. 83) Select “LFE+Main” if you want the bass signals to always be produced from the subwoofer.

General

Make various other settings.

Language

Set the language for display the menu on the TV screen.

English / Français / Español (Default : English)

"Language" can also be set up by the following operation. However, the menu screen is not displayed. Watch the display while configuring the settings.

1. Press and hold the main unit's TUNER PRESET CH +, TUNER PRESET CH - and TUNE - for at least 3 seconds.
   "V.Format:< NTSC>" appears on the display.
2. Press the main unit's TUNE +.
   "Lang.:<ENGLISH >" appears on the display.
3. Use the main unit's TUNER PRESET CH + or TUNE - and set the language.
4. Press TUNER PRESET CH - to enter the setting.

ECO

Configure the settings of the ECO Mode and auto standby mode.

■ ECO Mode

This can reduce the power consumption when the power of the unit is on.

On:	Reduce the power consumption.
Auto:	The power consumption is automatically reduced to match the volume.
Off (Default)**:**	Do not reduce the power consumption.

- When you want to output audio at a high volume level, it is recommended to set "ECO Mode" to "Off".
- Eco mode can also be switched by pressing ECO on the remote control unit.

Pow.On Default

Set the mode to ECO when the power is on.

Last (Default)**:**	The ECO Mode will be set to the previous setting before the power was switched off.
On:	When power is turned on, the mode will always be switched to the “ECO Mode” in “On”.
Auto:	When power is turned on, the mode will always be switched to the “ECO Mode” in “Auto”.
Off:	When power is turned on, the mode will always be switched to the “ECO Mode” in “Off”.

Auto Standby

Set so the unit power automatically switches to standby.

Sets the time for switching to auto standby when there are no audio or video signals input into this unit.

Before the unit enters standby mode, “Auto Standby” is displayed on the unit display and the menu screen.

60 min:	The unit goes into standby after 60 minutes.
30 min:	The unit goes into standby after 30 minutes.
15 min:	The unit goes into standby after 15 minutes.
Off (Default)**:**	The unit does not go into standby automatically.

BluetoothStandby

Set whether or not to turn the unit’s power on when a Bluetooth device is operated.

On (Default)**:**	Turns the Bluetooth standby function on.
Off:	Turns the Bluetooth standby function off.

When the “BluetoothStandby” setting is “On” and the connection operation is performed on a Bluetooth device when this unit is in the standby state, this unit’s power automatically switches on. In order to use this operation, the device needs to be paired with this unit in advance.

Front Display

Adjust the display brightness of this unit.

■ Dimmer

Bright (Default)**:**	Normal display brightness.
Dim:	Reduced display brightness.
Dark:	Very low display brightness.
Off:	Turns the display off.

- When the display brightness is set to “Off”, the display turns off as in the standby state.
- You can also adjust the display by pressing DIMMER on the main unit.

Firmware

When new firmware is supplied, update this unit using the USB port. Use a USB memory device to update the firmware.

■ Update Start

Start the firmware update.

To update the firmware, connect the USB memory device to the USB port on this unit.

Setup Lock

Protect settings from inadvertent changes.

■ Lock

On:	Turn protection on.
Off (Default)**:**	Turn protection off.

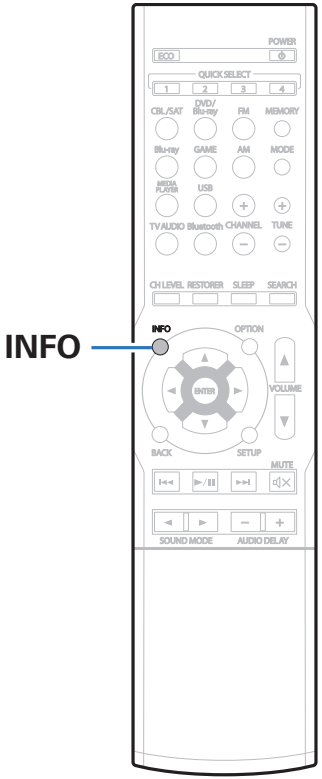
Perform the following operations to set “Lock” to “Off”.

1. Press and hold SETUP for more than 3 seconds.
   “Setup Lock:◀On▶” appears on the display.
2. Use ◁ ▷ to select “Off”, then press ENTER.

NOTE

When “Lock” is set to “On”, no setting items are displayed except for “Setup Lock”.

Checking the information



Information on the main unit's various settings (Status) and on input signals (Audio Input Signal) is shown on the display.

1 **Press INFO.**

The information screen is displayed.

Press INFO to display current input source name, volume, sound mode, and other information at the bottom of the screen.

NOTE

The status display screen cannot be displayed when playing the following video signals.

- Computer resolution video
- Video with an aspect ratio other than 16:9 or 4:3
- 4K video

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Tips

I want the volume not to become too loud by mistake

- Set the volume upper limit for “Limit” in the menu beforehand. This prevents children or others from increasing the volume too much by mistake. (☞ p. 71)

I want to keep the volume at the same level when I turn the power on

- By default, the volume setting when power was previously set to standby on this unit is applied at next power on with no change. To use a fixed volume level, set the volume level at power on for “Power On Level” in the menu. (☞ p. 71)

I want to have the subwoofer always output audio

- Depending on the input signals and sound mode, the subwoofer may not output audio. When “Subwoofer Mode” in the menu is set to “LFE+Main”, you can have the subwoofer always output audio. (☞ p. 85)

I want to set the optimized listening environment after changing the configuration/position of the speakers or changing a speaker to a new one.

- Perform “Auto Setup”. This automatically makes the optimized speaker settings for the new listening environment. (☞ p. 77)

I want to combine a desired video with the current music

- Set “Video Select” in the option menu to “On”. You can combine the current music with your desired video source from Set-top Box or DVD, etc. while listening to music from Tuner. (☞ p. 54)

Troubleshooting

If a problem should arise, first check the following:

1. **Are the connections correct?**
2. **Is the set being operated as described in the owner's manual?**
3. **Are the other devices operating properly?**

If this unit does not operate properly, check the corresponding symptoms in this section.

If the symptoms do not match any of those described here, consult your dealer as it could be due to a fault in this unit. In this case, disconnect the power immediately and contact the store where you purchased this unit.

■ Power does not turn on / Power is turned off

Symptom	Cause / Solution	Page
Power does not turn on.	• Check whether the power plug is correctly inserted into the power outlet.	35
Power automatically turns off.	• The sleep timer is set. Turn on the power again.	60
	• “Auto Standby” is set. “Auto Standby” is triggered when there is no operation for a set amount of time. To disable “Auto Standby”, set “Auto Standby” on the menu to “Off”.	87
Power turns off and the power indicator flashes in red approx. every 2 seconds.	• The protection circuit has been activated due to a rise in temperature within this unit. Turn the power off, wait about an hour until this unit cools down sufficiently, and then turn the power on again.	116
	• Please re-install this unit in a place having good ventilation.	–
Power turns off and the power indicator flashes in red approx. every 0.5 seconds.	• Check the speaker connections. The protection circuit may have been activated because speaker cable core wires came in contact with each other or a core wire was disconnected from the connector and came in contact with the rear panel of this unit. After unplugging the power cord, take corrective action such as firmly re-twisting the core wire or taking care of the connector, and then reconnect the wire.	22
	• Turn down the volume and turn on the power again.	37
	• This unit’s amplifier circuit has failed. Unplug the power cord and contact our customer service center.	–

■ Operations cannot be performed through the remote control unit

Symptom	Cause / Solution	Page
Operations cannot be performed through the remote control unit.	• Batteries are worn out. Replace with new batteries.	6
	• Operate the remote control unit within a distance of about 23 ft/7 m from this unit and at an angle of within 30°.	6
	• Remove any obstacle between this unit and the remote control unit.	—
	• Insert the batteries in the proper direction, checking the ⊕ and ⊖ marks.	6
	• The set's remote control sensor is exposed to strong light (direct sunlight, inverter type fluorescent bulb light, etc.). Move the set to a place in which the remote control sensor will not be exposed to strong light.	—
	• When using a 3D video device, the remote control unit of this unit may not function due to effects of infrared communications between units (such as TV and glasses for 3D viewing). In this case, adjust the direction of units with the 3D communications function and their distance to ensure they do not affect operations from the remote control unit of this unit.	—

■ Display on this unit shows nothing

Symptom	Cause / Solution	Page
Display is off.	• Press the DIMMER button on this unit or remote control unit to set the display brightness to a setting other than "Off".	88

■ No sound comes out

Symptom	Cause / Solution	Page
No sound comes out of speakers.	• Check the connections for all devices.	22
	• Insert connection cables all the way in.	—
	• Check that input connectors and output connectors are not reversely connected.	—
	• Check cables for damage.	—
	• Check that speaker cables are properly connected. Check that the cable core wires come into contact with the metal part of the speaker terminals.	22
	• Securely tighten the speaker terminals. Check speaker terminals for looseness.	22
	• Check that a proper input source is selected.	37
	• Adjust the volume.	38
	• Cancel the mute mode.	38
	• Check the digital audio input connector setting.	75
	• Check the digital audio output setting on the connected device. On some devices, the digital audio output is set to off by default.	—
	• When a headphone is plugged into the PHONES jack on the main unit, sound is not output from the speaker terminal and SUBWOOFER connector.	12
No sound comes out when using the DVI-D connection.	• When this unit is connected to a device equipped with a DVI-D connector, no sound is output. Make a separate audio connection.	—

■ Desired sound does not come out

Symptom	Cause / Solution	Page
The volume does not increase.	• The maximum volume is set too low. Set the maximum volume using “Limit” on the menu.	71
	• Appropriate volume correction processing is performed according to the input audio format and settings, so the volume may not reach the upper limit.	—
No sound comes out with the HDMI connection.	• Check the connection of the HDMI connectors.	26
	• When outputting HDMI audio from the speakers, set “HDMI Audio Out” on the menu to “AVR”. To output from the TV, set “TV”.	73
No sound comes out of a specific speaker.	• Check that speaker cables are properly connected.	22
	• Check that a selection other than “None” is set for the “Speaker Config.” setting in menu.	82
	• When the sound mode is “Stereo” and “Virtual”, audio is only output from the front speakers and subwoofer.	—
No sound is produced from subwoofer.	• Check the subwoofer connections.	23
	• Turn on the subwoofer’s power.	—
	• When “Speaker Config.” - “Front” in the menu is set to “Large”, depending on the input signal and the sound mode, no sound may be output from the subwoofer.	82
	• When no subwoofer audio signal (LFE) is included in the input signals, no sound may be output from the subwoofer.	85
	• You can make the subwoofer always output sound by setting the “Subwoofer Mode” to “LFE+Main”.	85
DTS sound is not output.	• Check that the digital audio output setting on the connected device is set to “DTS”.	—
	• Set “Decode Mode” on the menu to “Auto” or “DTS”.	76
Dolby TrueHD, DTS-HD, Dolby Digital Plus audio is not output.	• Make HDMI connections.	30
	• Check the digital audio output setting on the connected device. On some devices, “PCM” is set by default.	—
Dolby PLII mode or DTS Neo:6 mode cannot be selected.	• It cannot be selected when “None” is set for “Speaker Config.” - “Center” and “Surround”.	83
	• Dolby PLII or DTS Neo:6 cannot be selected when using headphones.	—

Symptom	Cause / Solution	Page
“Restorer” cannot be selected.	• Check that an analog signal or PCM signal (Sample Rate = 44.1/48 kHz) is input. For playback of multichannel signals such as Dolby Digital or DTS surround, “Restorer” cannot be used.	70
	• Switch to a sound mode other than “Direct”.	55

■ Sound is interrupted or noise occurs

Symptom	Cause / Solution	Page
During playback from the USB memory device, sound is occasionally interrupted.	• When the transfer speed of the USB memory device is slow, sound may occasionally be interrupted.	—
Noise often occurs in FM/AM broadcasting.	• Change the antenna orientation or position.	33
	• Please use an outdoor antenna.	33
	• Separate the antenna from other connection cables.	33
The sounds appear to be distorted.	• Lower the volume.	38
	• Set “Off” to the ECO Mode. When “On” or “Auto” is in the ECO Mode, the audio may by distorted when the playback volume is high.	86

■ No video is shown on the TV

Symptom	Cause / Solution	Page
No picture appears.	• Check the connections for all devices.	26
	• Insert connection cables all the way in.	—
	• Check that input connectors and output connectors are not reversely connected.	—
	• Check cables for damage.	—
	• Match the input settings to the input connector of the TV connected to this unit.	75
	• Check that the proper input source is selected.	37
	• Check the video input connector setting.	75
	• Check that the resolution of the player corresponds to that of the TV.	—
	• Check whether the TV is compatible with copyright protection (HDCP). If connected to a device not compatible with HDCP, video will not be output correctly.	105
No video is shown on the TV with the DVI-D connection.	• With the DVI-D connection, on some device combinations, devices may not function properly due to the copy guard copyright protection (HDCP).	105
While the menu is being displayed, no video is shown on the TV.	• The video being played will not appear in the background of the menu when the menu is operated during playback of the following video signals. - Some images from 3D video content - Computer resolution images (example: VGA) - Video with an aspect ratio other than 16:9 or 4:3 - Dedicated 4K connector (Blu-ray, Game)	—

■ The menu screen is not displayed on the TV

Symptom	Cause / Solution	Page
The menu screen or status information screen is not displayed on the TV.	• The menu screen is only displayed on this unit and a TV connected with an HDMI cable. If this unit is connected to a TV using a different video output connector, operate while watching the display on this unit.	—
	• When a 2D video is converted to a 3D video on the TV, the menu screen or status information screen is not properly displayed.	—

■ USB memory devices cannot be played back

Symptom	Cause / Solution	Page
"No connection" is displayed.	• This unit cannot recognize the USB memory device. Disconnect and reconnect the USB memory device.	32
	• Mass storage class compatible USB memory devices are supported.	—
	• This unit does not support a connection through a USB hub. Connect the USB memory device directly to the USB port.	—
	• The USB memory device must be formatted to FAT16 or FAT32.	—
	• Not all USB memory devices are guaranteed to work. Some USB memory devices are not recognized. When using a type of portable hard disc drive compatible with the USB connection that requires power from an AC adapter, use the AC adapter that came with the drive.	—
Files on the USB memory device are not displayed.	• Files of a type not supported by this unit are not displayed.	39
	• This unit is able to display files within a maximum of 16 folder layers and up to 999 files (folders). Modify the folder structure of the USB memory device.	—
	• When multiple partitions exist on the USB memory device, only files on the first partition are displayed.	—
Files on a USB memory device cannot be played.	• Files are created in a format that is not supported by this unit. Check the formats supported by this unit.	106
	• You are attempting to play a file that is copyright protected. Files that are copyright protected cannot be played on this unit.	—
	• FLAC 96 kHz/24 bit uncompressed files cannot be played back on this unit. Check the formats supported by this unit.	—

■ File names on the USB memory device are not displayed properly

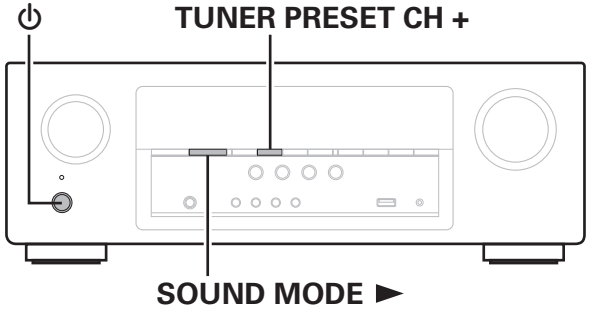
Symptom	Cause / Solution	Page
The file names are not displayed properly (“...”, etc.).	• Characters that cannot be displayed have been used. On this unit, characters that cannot be displayed are replaced with a “. (period)”.	—

■ Bluetooth cannot be played back

Symptom	Cause / Solution	Page
Bluetooth devices cannot be connected to this unit.	• The Bluetooth function in the Bluetooth device has not been enabled. See the Owner’s Manual of the Bluetooth device to enable the Bluetooth function.	—
	• Bring the Bluetooth device near to this unit.	—
	• The Bluetooth device cannot connect with this unit if it is not compatible with the A2DP profile.	—
	• Turn the power of the Bluetooth device off and on again, and then try again.	—
The sound is cut off.	• Bring the Bluetooth device near to this unit.	—
	• Remove obstructions between the Bluetooth device and this unit.	—
	• To prevent electromagnetic interference, locate this unit away from microwave ovens, wireless LAN devices and other Bluetooth devices.	—
	• Reconnect the Bluetooth device.	—

Resetting factory settings

Perform this procedure if the display is abnormal or if operations cannot be performed.
Various settings are reset to the factory default values. Make settings again.



1. **Turn off the power using ⏻.**
2. **Press ⏻ while simultaneously pressing SOUND MODE ► and TUNER PRESET CH +.**
3. **Release the two buttons when the display starts flashing at intervals of about 1 second.**

About HDMI

HDMI is an abbreviation of High-Definition Multimedia Interface, which is an AV digital interface that can be connected to a TV or amplifier.

With the HDMI connection, high definition video and high quality audio formats adopted by Blu-ray Disc players (Dolby Digital Plus, Dolby TrueHD, DTS-HD, DTS-HD Master Audio) can be transmitted, which is not possible with the analog video transmission.

Furthermore, in the HDMI connection, audio and video signals can be transmitted through a single HDMI cable, while in conventional connections it is necessary to provide audio and video cables separately for connection between devices. This allows you to simplify the wiring configuration that tends to be quite complex in a home theater system.

This unit supports the following HDMI functions.

- **Deep Color**

  An imaging technology supported by HDMI. Unlike RGB or YCbCr, which uses 8 bits (256 shades) per color, it can use 10 bits (1024 shades), 12 bits (4096 shades), or 16 bits (65536 shades) to produce colors in higher definition.

  Both devices linked via HDMI must support Deep Color.

- **“x.v.Color”**

  This function lets HDTVs display colors more accurately. It enables display with natural, vivid colors.

  “x.v.Color” is trademark of Sony Corporation.

- **3D**

  This unit supports input and output of 3D (3 dimensional) video signals of HDMI. To play back 3D video, you need a TV and player that provide support for the HDMI 3D function and a pair of 3D glasses.

- **4K**

  This unit supports input and output of 4K (3840 x 2160 pixels) video signals of HDMI.

- **Content Type**

  It automatically makes settings suitable for the video output type (content information).

- **Adobe RGB color, Adobe YCC601 color**

  The color space defined by Adobe Systems Inc. Because it is a wider color space than RGB, it can produce more vivid and natural images.

- **sYCC601 color**

  Each of these color spaces defines a palette of available colors that is larger than the traditional RGB color model.

- **HDMI Pass Through**

  Even when the power to this unit is set to standby, signals input from the HDMI input connector are output to a TV or other device that is connected to the HDMI output connector.

■ Supported audio formats

2-channel Linear PCM	2-channel, 32 kHz – 192 kHz, 16/20/24 bit
Multi-channel Linear PCM	7.1-channel, 32 kHz – 192 kHz, 16/20/24 bit
Bitstream	Dolby Digital / DTS / Dolby TrueHD / Dolby Digital Plus / DTS-HD Master Audio / DTS-HD High Resolution Audio / DTS Express

■ Supported video signals

- 480i
- 576i
- 720p 60/50Hz
- 1080p 60/50/24Hz
- 480p
- 576p
- 1080i 60/50Hz
- 4K 60/50/30/25/24 Hz

Copyright protection system
In order to play back digital video and audio such as BD video or DVD video via HDMI connection, both this unit and the TV or player must to support the copyright protection system known as HDCP (High-bandwidth Digital Content Protection System). HDCP is copyright protection technology comprised of data encryption and authentication of the connected AV devices. This unit supports HDCP. • If a device that does not support HDCP is connected, video and audio are not output correctly. Read the owner's manual of your television or player for more information.

When connecting this unit to a device that is compatible with the Deep Color and 4K, use a "High Speed HDMI cable with Ethernet" that comes with the HDMI logo.

Playing back a USB memory devices

- This unit is compatible with MP3 ID3-Tag (Ver. 2) standard.
- This unit can show the artwork that was embedded by using MP3 ID3-Tag Ver. 2.3 or 2.4.
- This unit is compatible with WMA META tags.
- If the image size (pixels) of an album artwork exceeds 500 × 500 (WMA/MP3/WAV/FLAC) or 349 × 349 (MPEG-4 AAC), then music may not be played back properly.

■ Compatible formats

	Sampling frequency	Bit rate	Extension
WMA (Windows Media Audio)	32/44.1/48 kHz	48 – 192 kbps	.wma
MP3 (MPEG-1 Audio Layer-3)	32/44.1/ 48 kHz	32 – 320 kbps	.mp3
WAV	32/44.1/48 kHz	–	.wav
MPEG-4 AAC *	32/44.1/48 kHz	48 – 320 kbps	.aac/.m4a
FLAC (Free Lossless Audio Codec)	32/44.1/48/88.2/96 kHz	–	.flac

* Only files that are not protected by copyright can be played on this unit. Content downloaded from pay sites on the Internet are copyright protected. Also, files encoded in WMA format when ripped from a CD, etc. on a computer may be copyright protected, depending on the computer's settings.

■ Maximum number of playable files and folder

The limits on the number of folders and files that can be displayed by this unit are as follows.

Item \ Media	USB memory device
Memory capacity	FAT16 : 2 GB, FAT32 : 2 TB
Number of folder directory levels *1	16 levels
Number of folders	99
Number of files*2	999

*1 The limited number includes the root folder.

*2 The allowable number of files may differ according to the USB memory device capacity and the file size.

Playing back a Bluetooth device

This unit supports the following Bluetooth profile.

- A2DP (Advanced Audio Distribution Profile):
  When a Bluetooth device that supports this standard is connected, monaural and stereo sound data can be streamed at a high quality.
- AVRCP (Audio/Video Remote Control Profile):
  When a Bluetooth device that supports this standard is connected, the Bluetooth device can be operated from this unit.

■ About Bluetooth communications

Radio waves broadcast from this unit may interfere with the operation of medical devices. Make sure you turn off the power of this unit and Bluetooth device in the following locations as radio wave interference may cause malfunctions.

- Hospitals, trains, aircraft, petrol kiosks and places where flammable gases are generated
- Near automatic doors and fire alarms

Personal memory plus function

The most recently used settings (input mode, HDMI output mode, sound mode, tone control, channel level, Restorer and audio delay, etc.) are saved for each input source.

“Surr.Parameter” and “Tone” settings are stored for each sound mode.

Last function memory

This function stores the settings which were made before going into the standby mode.

Sound modes and channel output

○ This indicates the audio output channels or surround parameters that can be set.
◎ This indicates the audio output channels. The output channels depend on the settings of “Speaker Config.”. (☞ p. 82)

Sound mode (☞ p. 55)	Channel output			
	Front L/R	Center	Surround L/R	Subwoofer
Direct (2-channel)	○			◎ *
Direct (Multi-channel)	○	◎	◎	◎
Stereo	○			◎
Multi Ch In	○	◎	◎	◎
Dolby Pro Logic II	○	◎	◎	◎
DTS Neo:6	○	◎	◎	◎
Dolby Digital	○	◎	◎	◎
Dolby Digital Plus	○	◎	◎	◎
Dolby TrueHD	○	◎	◎	◎
DTS Surround	○	◎	◎	◎
DTS 96/24	○	◎	◎	◎
DTS-HD	○	◎	◎	◎
DTS Express	○	◎	◎	◎
Multi Ch Stereo	○	◎	◎	◎
Virtual	○			◎

* Audio is output when “Subwoofer Mode” in the menu is set to “LFE+Main”. (☞ p. 85)

Sound modes and surround parameters

Sound mode (☞ p. 55)	Surr.Parameter (☞ p. 67)								Tone (☞ p. 52)	Restorer*3 (☞ p. 70)
	Mode (☞ p. 67)	Dynamic Comp.*1 (☞ p. 68)	Low Frequency*2 (☞ p. 68)	Subwoofer (☞ p. 70)	Pro Logic II Music mode only			Neo: 6 Music mode only		
					Panorama (☞ p. 69)	Dimension (☞ p. 69)	Center Width (☞ p. 69)	Center Image (☞ p. 68)		
Direct (2-channel)		○								
Direct (Multi-channel)		○	○							
Stereo		○	○						○	○
Multi Ch In			○						○	
Dolby Pro Logic II	○	○			○	○	○		○	○
DTS Neo:6	○	○						○	○	○
Dolby Digital		○	○						○	
Dolby Digital Plus		○	○						○	
Dolby TrueHD		○	○							
DTS Surround		○	○						○	
DTS 96/24		○	○						○	
DTS-HD		○	○							
DTS Express		○	○						○	
Multi Ch Stereo		○	○						○	○
Virtual		○	○						○	○

*1 This item can be selected when Dolby Digital or DTS signal is played.
*2 This item can be selected when Dolby Digital or DTS signal or DVD-Audio is played.
*3 This item can be set when the input signal is analog, PCM 48 kHz or 44.1 kHz.
*4 This setting is available when “Subwoofer Mode” in the menu is set to “LFE+Main”. (☞ p. 85)

Types of input signals, and corresponding sound modes

● This indicates the default sound mode.
○ This indicates the selectable sound mode.

Sound mode (☞ p. 55)	Type and format of input signals											
	ANALOG	PCM		DTS-HD		DTS			Dolby		Dolby Digital	
		PCM (Multi-channel)	PCM (2-channel)	DTS-HD Master Audio	DTS-HD High Resolution Audio	DTS Express	DTS (5.1-channel)	DTS 96/24	Dolby TrueHD	Dolby Digital Plus	Dolby Digital (5.1-channel)	Dolby Digital (2-channel)
DTS Surround												
DTS-HD Mstr				●								
DTS-HD Hi Res					●							
DTS Surround							●					
DTS 96/24								●				
DTS Express						●						
DTS Neo:6 Cinema	○		○									○
DTS Neo:6 Music	○		○									○
Dolby Surround												
Dolby TrueHD									●			
Dolby Digital+										●		
Dolby Digital											●	
Dolby Pro Logic II Cinema	○		○									○
Dolby Pro Logic II Music	○		○									○
Dolby Pro Logic II Game	○		○									○
Dolby Pro Logic	○		○									○
Multi Ch In												
Multi Ch In		●										
Direct												
Direct	○	○	○	○	○	○	○	○	○	○	○	○
Original sound mode												
Multi Ch Stereo	○	○	○				○	○			○	○
Virtual	○	○	○				○	○			○	○
Stereo												
Stereo	●	○	●	○	○	○	○	○	○	○	○	○

Explanation of terms

■ Dolby

Dolby Digital

Dolby Digital is a multi-channel digital signal format developed by Dolby Laboratories.

A total of 5.1-channels are played: 3 front channels (“FL”, “FR” and “C”), 2 surround channels (“SL” and “SR”) and the “LFE” channel for low frequency effects.

Because of this, there is no crosstalk between channels and a realistic sound field with a “three-dimensional” feeling (sense of distance, movement and positioning) is achieved. This delivers a thrilling surround sound experience in the home.

Dolby Digital Plus

Dolby Digital Plus is an improved Dolby Digital signal format that is compatible with up to 7.1-channels of discrete digital sound and also improves sound quality thanks to extra data bit rate performance. It is upwardly compatible with conventional Dolby Digital, so it offers greater flexibility in response to the source signal and the conditions of the playback device.

Dolby Pro Logic Ⅱ

Dolby Pro Logic Ⅱ is a matrix decoding technology developed by Dolby Laboratories.

Regular music such as that on CDs is encoded into 5-channels to achieve an excellent surround effect.

The surround channel signals are converted into stereo and full band signals (with a frequency response of 20 Hz to 20 kHz or greater) to create a “three-dimensional” sound image offering a rich sense of presence for all stereo sources.

Dolby TrueHD

Dolby TrueHD is a high definition audio technology developed by Dolby Laboratories, using lossless coding technology to faithfully reproduce the sound of the studio master.

This format provides the facility to support up to 8 audio channels with a sampling frequency of 96 kHz/24 bit resolution and up to 6 audio channels with a sampling frequency of 192 kHz/24 bit resolution.

■ DTS

DTS

This is an abbreviation of Digital Theater System, which is a digital audio system developed by DTS. DTS delivers a powerful and dynamic surround sound experience, and is found in the world's finest movie theaters and screening rooms.

DTS 96/24

DTS 96/24 is a digital audio format enabling high sound quality playback in 5.1-channels with a sampling frequency of 96 kHz and 24 bit quantization on DVD-Video.

DTS Digital Surround

DTS™ Digital Surround is the standard digital surround format of DTS, Inc., compatible with a sampling frequency of 44.1 or 48 kHz and up to 5.1-channels of digital discrete surround sound.

DTS-HD

This audio technology provides higher sound quality and enhanced functionality than the conventional DTS and is adopted as an optional audio for Blu-ray Disc.

This technology supports multi-channel, high data transfer speed, high sampling frequency, and lossless audio playback. Maximum 7.1-channels are supported in Blu-ray Disc.

DTS-HD High Resolution Audio

DTS-HD High Resolution Audio is an improved version of the conventional DTS, DTS-ES and DTS 96/24 signals formats, compatible with sampling frequencies of 96 or 48 kHz and up to 7.1-channels of discrete digital sound. High data bit rate performance provides high quality sound. This format is fully compatible with conventional products, including conventional DTS digital surround 5.1-channel data.

DTS-HD Master Audio

DTS-HD Master Audio is a lossless audio format created by Digital Theater System (DTS). This format provides the facility to support up to 8 audio channels with a sampling frequency of 96 kHz/24 bit resolution and up to 6 audio channels with a sampling frequency of 192 kHz/24 bit resolution. It is fully compatible with conventional products, including conventional DTS digital surround 5.1-channel data.

DTS Neo:6™ Surround

DTS Neo:6™ is a matrix decoding technology for achieving 6.1-channel surround playback with 2-channel sources. It includes "DTS Neo:6 Cinema" suite for playing movies and "DTS Neo:6 Music" suited for playing music.

■ Audio

ALAC (Apple Lossless Audio Codec)

This is a codec for lossless audio compression method developed by Apple Inc. This codec can be played back on iTunes, iPod or iPhone. Data compressed to approximately 60 – 70 % can be decompressed to exactly the same original data.

FLAC

FLAC stands for Free lossless Audio Codec, and is a lossless free audio file format. Lossless means that the audio is compressed without any loss in quality.

The FLAC license is as shown below.

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LFE

This is an abbreviation of Low Frequency Effect, which is an output channel that emphasizes low frequency effect sound. Surround audio is intensified by outputting 20 Hz to 120 Hz deep bass to the system subwoofer(s).

MP3 (MPEG Audio Layer-3)

This is an internationally standardized audio data compression scheme, using the “MPEG-1” video compression standard. It compresses the data volume to about one eleventh its original size while maintaining sound quality equivalent to a music CD.

MPEG (Moving Picture Experts Group), MPEG-2, MPEG-4

These are the names for digital compression format standards used for the encoding of video and audio. Video standards include “MPEG-1 Video”, “MPEG-2 Video”, “MPEG-4 Visual”, “MPEG-4 AVC”. Audio standards include “MPEG-1 Audio”, “MPEG-2 Audio”, “MPEG-4 AAC”.

WMA (Windows Media Audio)

This is audio compression technology developed by Microsoft Corporation.

WMA data can be encoded using Windows Media® Player.

To encode WMA files, only use applications authorized by Microsoft Corporation. If you use an unauthorized application, the file may not work properly.

Sampling frequency

Sampling involves taking a reading of a sound wave (analog signal) at regular intervals and expressing the height of the wave at each reading in digitized format (producing a digital signal).

The number of readings taken in one second is called the “sampling frequency”. The larger the value, the closer the reproduced sound is to the original.

Speaker impedance

This is an AC resistance value, indicated in Ω (Ohms).

Greater power can be obtained when this value is smaller.

Dialog normalization function

This function operates automatically during playback of Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS or DTS-HD sources.
It automatically corrects the standard signal level for individual program sources.

Dynamic range

The difference between the maximum undistorted sound level and the minimum discernible level above the noise emitted by the device.

Downmix

This function converts the number of channels of surround audio to a lower number of channels and plays back according to the system’s configuration.

■ Others

HDCP

When transmitting digital signals between devices, this copyright protection technology encrypts the signals to prevent content from being copied without authorization.

Pairing

Pairing (registration) is an operation that is required in order to connect a Bluetooth device to this unit using Bluetooth. When paired, the devices authenticate each other and can connect without mistaken connections occurring.
When using Bluetooth connection for the first time, you need to pair this unit and the Bluetooth device to be connected.
This unit can store pairing information for a maximum of 8 devices.

Protection circuit

This is a function to prevent damage to devices within the power supply when an abnormality such as an overload, excess voltage occurs or over temperature for any reason.

If a malfunction occurs in this unit, the power indicator blinks red and the unit switches to standby mode.

Trademark information

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by D&M Holdings inc. is under license. Other trademarks and trade names are those of their respective owners.

Manufactured under license from Dolby Laboratories.

Manufactured under a license from U.S. Patent No's: 5,956,674; 5,974,380; 6,226,616; 6,487,535; 7,212,872; 7,333,929; 7,392,195; 7,272,567 & other U.S. and worldwide patents issued & pending. DTS-HD, the Symbol, & DTS-HD and the Symbol together are registered trademarks & DTS-HD Master Audio is a trademark of DTS, Inc. Product includes software. ©DTS, Inc. All Rights Reserved.

The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

Specifications

■ Audio section

- **Power amplifier**

Rated output:

Front:
70 W + 70 W (8 Ω/ohms, 20 Hz – 20 kHz with 0.08 % T.H.D.)
90 W + 90 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
Center:
70 W (8 Ω/ohms, 20 Hz – 20 kHz with 0.08 % T.H.D.)
90 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
Surround:
70 W + 70 W (8 Ω/ohms, 20 Hz – 20 kHz with 0.08 % T.H.D.)
90 W + 90 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)

Output connectors: 6 – 16 Ω/ohms

- **Analog**

Input sensitivity/Input impedance: 200 mV/47 kΩ/kohms

Frequency response: 10 Hz – 100 kHz — +1, –3 dB (Direct mode)

S/N: 98 dB (IHF–A weighted, Direct mode)

■ Tuner section

	[FM]	[AM]
	(Note: µV at 75 Ω/ohms, 0 dBf = 1 x 10^{-15} W)	
Reception frequency range:	87.5 MHz – 107.9 MHz	520 kHz – 1710 kHz
Effective sensitivity:	1.2 µV (12.8 dBf)	18 µV
50 dB sensitivity:	MONO — 2.8 µV (20.2 dBf)	
S/N ratio:	MONO — 70 dB (IHF–A weighted, Direct mode) STEREO — 67 dB (IHF–A weighted, Direct mode)	
Distortion:	MONO — 0.7 % (1 kHz) STEREO — 1.0 % (1 kHz)	

■ Bluetooth section

Communications system:	Bluetooth Version 2.1 + EDR (Enhanced Data Rate)
Transmission power:	Maximum 2.5 mW (Class 2)
Maximum communication range:	Approx. 32.8 ft/10 m in line of sight*2
Frequency band:	2.4 GHz band
Modulation scheme:	FHSS (Frequency-Hopping Spread Spectrum)
Supported profiles:	A2DP (Advanced Audio Distribution Profile) 1.2
	AVRCP (Audio Video Remote Control Profile) 1.4
Corresponding codec:	SBC, AAC
Transmission range (A2DP):	20 Hz - 20,000 Hz

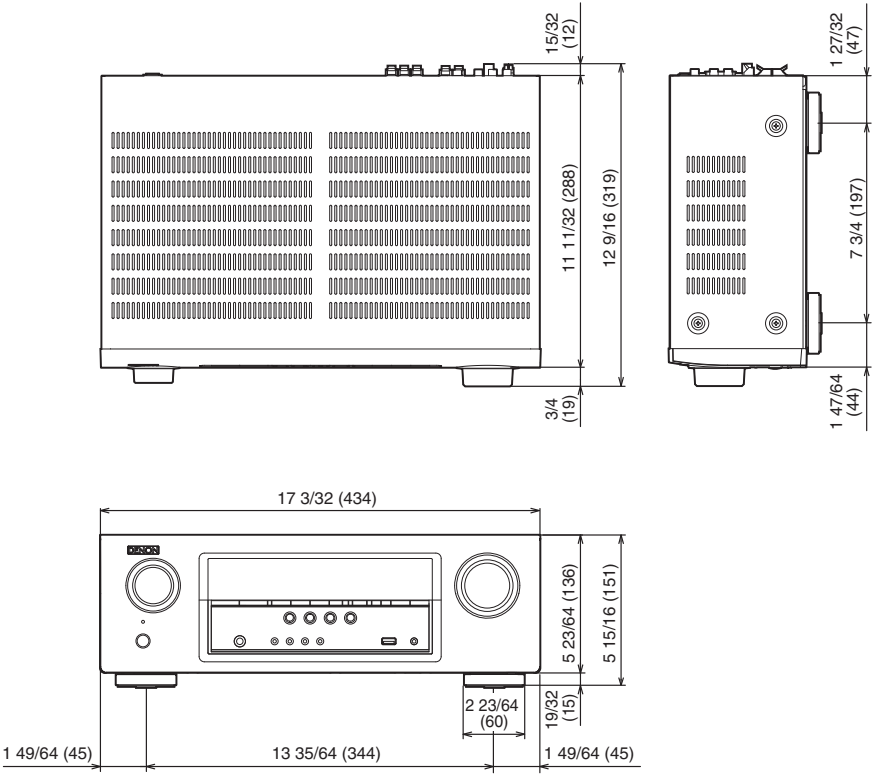
*2 The actual communication range varies depending on the influence of such factors as obstructions between devices, electromagnetic waves from microwave ovens, static electricity, cordless phones, reception sensitivity, antenna performance, operating system, application software etc.

■ General

Power supply:	AC 120 V, 60 Hz
Power consumption:	310 W
Power consumption in standby mode:	0.1 W
Power consumption when Bluetooth standby is used:	1 W

For purposes of improvement, specifications and design are subject to change without notice.

■ **Dimensions** (Unit : in. (mm))



■ **Weight : 16 lbs 9 oz (7.5 kg)**

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ENGLISH

FRANÇAIS

ESPAÑOL

PORTUGUÊS

AVR-S500BT

AV SURROUND RECEIVER

Quick Start Guide

Read Me First....

Guide de configuration rapide / Guía de configuración rápida /
Guia de Arranque Rápido
Lisez-moi en premier.... / Lea esto primero.... /
Leia isto primeiro....

Please do not return this unit to the store – call for assistance.

If you need help… :

If you need additional help in solving problems, contact Denon customer service in your area.

1-855-MY.Denon
1-855-693-3666
Call for Assistance:
Monday – Friday 10:00AM to 10:00PM E.S.T
Saturday 12:00PM to 8:00PM E.S.T
For frequently asked questions please visit
www.usa.denon.com/FAQ

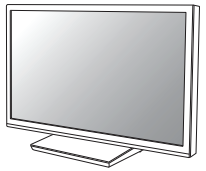
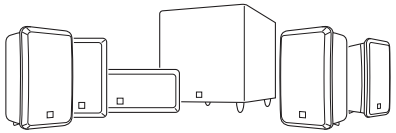
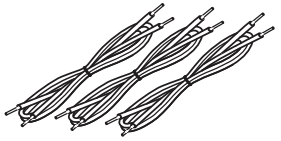
For US and Canada only

Welcome

Thank you for choosing a Denon AV receiver. This guide provides step-by-step instructions for setting up your AV receiver.

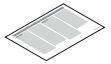
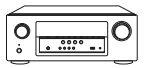
Before You Begin

Required for Setup

 TV	HDMI cable
 Speaker systems	 Speaker cables

- When connecting this unit to a device that is compatible with the Deep Color and 4K, use a "High Speed HDMI cable with Ethernet" that comes with the HDMI logo.
- These drawings are for illustrative purposes only and may not represent the actual product(s).

What's In the Box

Quick Start Guide		FM indoor antenna	
Safety Instructions		AM loop antenna	
Notes on radio		Remote control unit	
Warranty (for North America model only)		R03/AAA batteries	
Receiver		Sound calibration microphone	

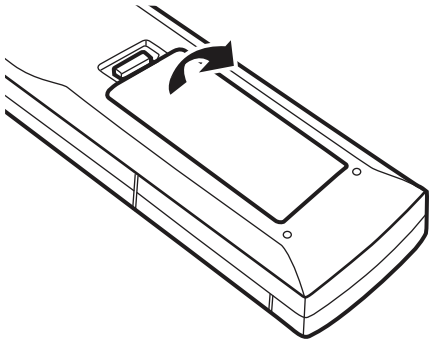
The supplied Sound calibration microphone stand is convenient for use when performing Speaker Calibration. Using your own tripod or the supplied Sound calibration microphone stand enables settings to be automatically configured to the optimum listening environment, providing exceptionally high performance.

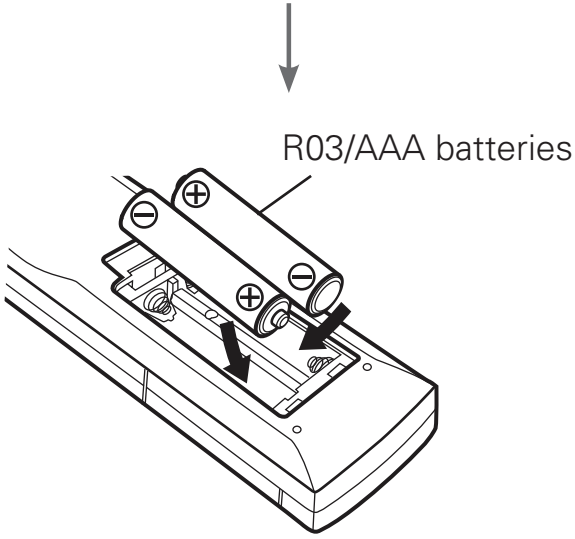
Setup

There are three steps to the setup process.

1. **Install batteries in the remote control unit**
2. **Connecting the receiver**
3. **Follow the On-Screen Setup Assistant**

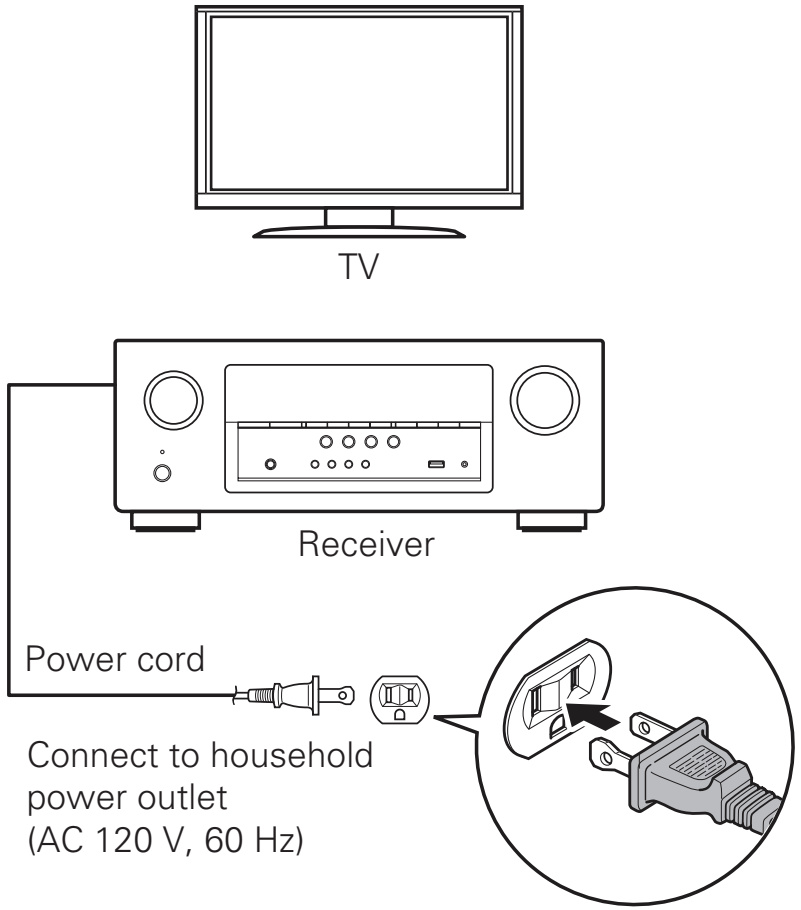
1 Installing batteries in the remote control unit



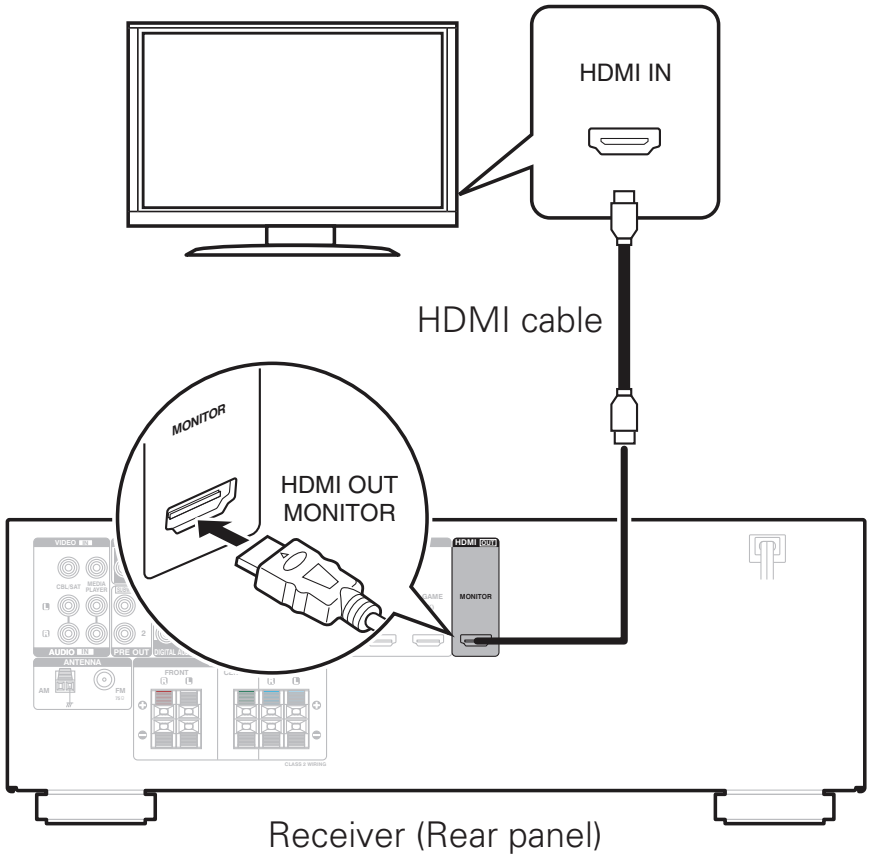


2 Connecting the receiver

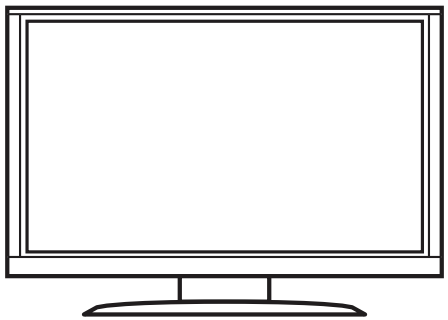
❏ **Place the receiver near your TV and connect the power cable.**

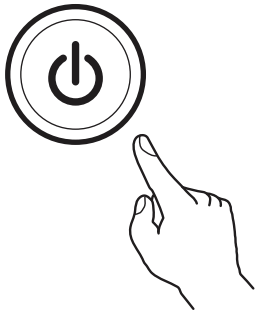


❑ Connect the receiver to your TV with an HDMI cable.



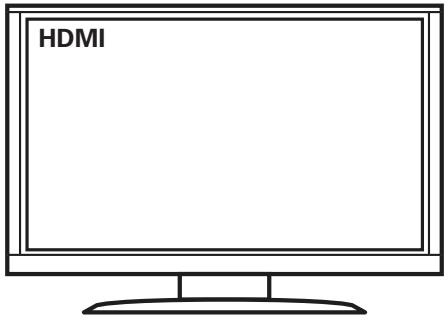
❑ Turn on the TV.

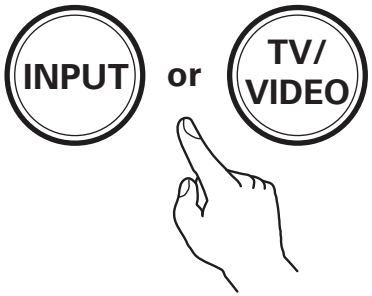




TV remote control unit

❑ Select the appropriate HDMI input on your TV.

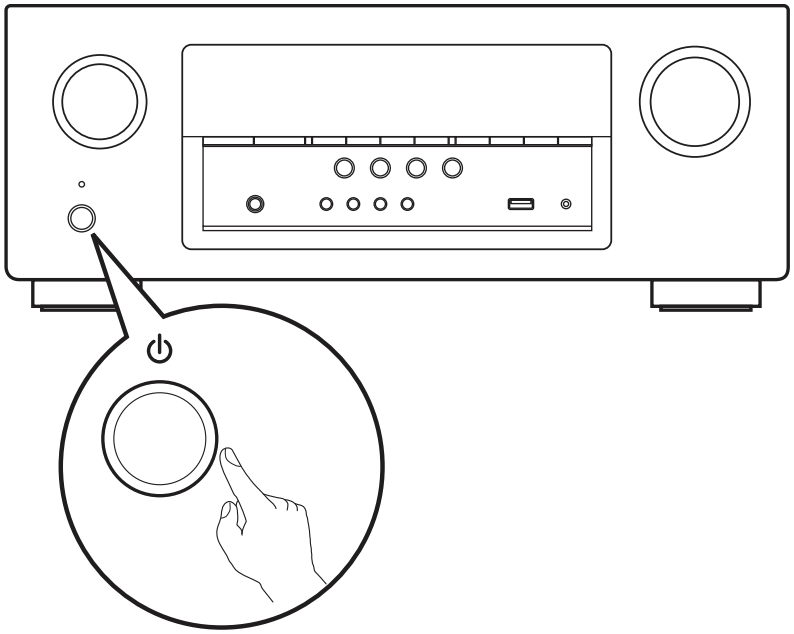




TV remote control unit

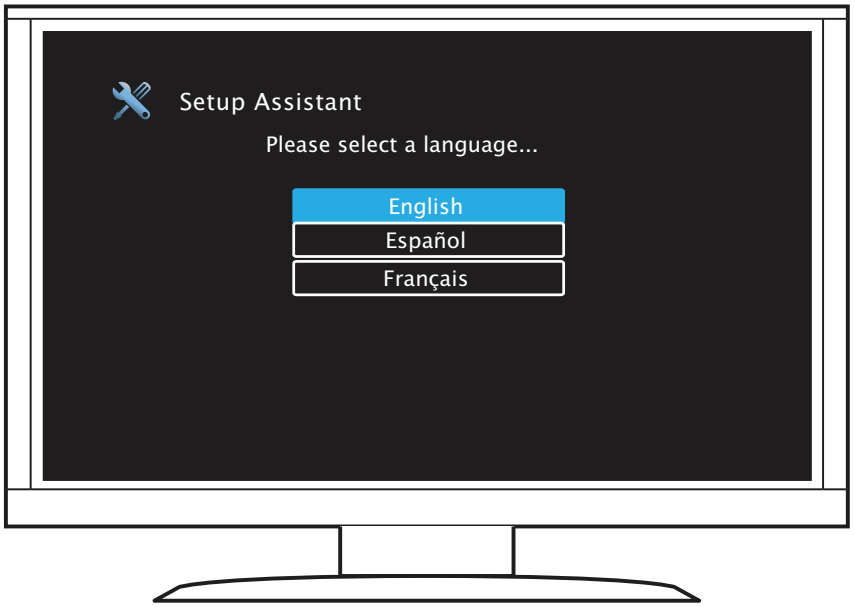
❑ Turn on the receiver.

- Press ⏻ to turn on the receiver.



❑ Verify the connection.

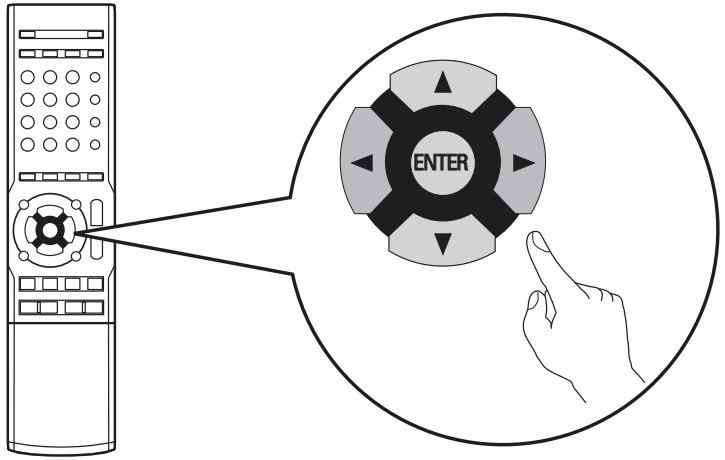
- Verify that you can see this screen on your TV.



When this screen is not displayed, please read operation from the beginning.

3 Follow the On-Screen Setup Assistant

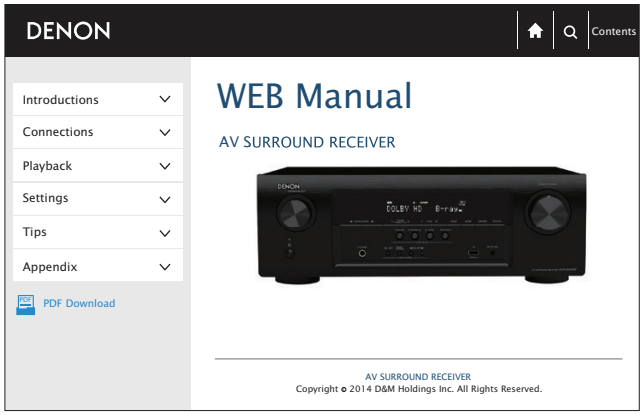
The Setup Assistant will walk you through connecting and configuring your speakers and components to your Denon receiver. Please use the remote control and follow the on-screen instructions.



Owner’s Manual

- For more information, visit www.denon.com.
- Refer to the Web Manual for other functions information and operation procedure details.
  manuals.denon.com/AVRS500BT/NA/EN/

Web Manual



DENON®

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Printed in China 5411 11181 04AD

PRODUCT INFORMATION

AVR-S500BT

5.2 AV RECEIVER

DENON®

Bluetooth™ DOLBY TRUEHD dts-HD Master Audio HDMI eco mode

POWERFUL 5.2 AV RECEIVER WITH BUILT-IN WIRELESS BLUETOOTH® STREAMING AND 4K ULTRA HD/60HZ VIDEO PASS-THROUGH

The AVR-S500BT 5.2 AV Receiver builds on the outstanding success of Denon's AV range over many years and delivers the latest surround sound technology with a very affordable price tag. 5 channels delivering 140W, the power for surround sound with real impact, whether you are watching a movie or playing a video game. Likewise, the 2-channel performance for listening to your favorite stereo music is exceptional. Bluetooth enables easy wireless playback from your mobile phone and other compatible portable devices. As well as the music stored on your phone, you can play music streaming services from your phone. The clear on-screen displays, auto setup and room EQ make the receiver easy to setup and use. Four "Quick Select" buttons enable instant access to your favorite sources and can also be used to store your preferred settings.

Built-in Wireless Bluetooth Streaming
More and more portable devices are equipped with Bluetooth wireless streaming capability, including smartphones, portable audio/video players and tablet devices. With the AVR-S500BT's built-in Bluetooth streaming function, you can wirelessly stream your favorite content without needing to purchase expensive adaptors. Simply select the AVR-S500BT from your device's Bluetooth menu to automatically turn on the receiver and start playing your music. Up to 5 Bluetooth devices can be remembered by the AVR-S500BT, so family members as well as friends can enjoy their favorite tracks.

4K Ultra HD/60 Hz Video Pass-through; 4:4:4 Pure Color
With 5 HDMI inputs, the AVR-S500BT lets you connect multiple HDMI source devices. The Blu-ray and Game inputs support 4K Ultra HD 60 Hz and 4:4:4 Pure Color video pass-through, a feature of the latest HDMI specification. The AVR-S500BT's video section is also fully compatible with 3D content.

Easy To Setup, Easy To Use
With Denon's exclusive on-screen Setup Assistant, along with the supplied Quick Start guide, you can connect and configure your home theater system quickly and easily. The Setup Assistant features clear on-screen graphics and text that optimizes critical system settings for your particular home theater setup.

During the automated setup process, the included measuring microphone determines the right combination of optimum settings to deliver the best possible sound quality from your particular speaker system.

Dual Subwoofer Outputs
For compatibility with dual subwoofer home theater systems, the AVR-S500BT features two subwoofer outputs. With dual subwoofers, which can be placed in different parts of the room, you'll benefit from response averaging, which helps provide smoother and more detailed deep bass, compared to a conventional single subwoofer speaker system.

Eco Mode For Reduced Power Consumption
The AVR-S500BT features a powerful Class AB power amplifier section equipped with discrete high current power transistors, and is rated at a maximum of 140 watts per channel for each of the 5 channels.

There's also an Auto Eco mode that adjusts the maximum power available according to the volume level selected.

USB Connectivity
In addition to the many digital and analog audio and video connection options, the AVR-S500BT also features a convenient front panel USB port that's compatible with portable USB drives with MP3 and WMA audio tracks.

KEY FEATURES

- 5.2ch platform
- 140W (6ohm, 1kHz, 1ch driven)
- 4K/60Hz full-rate pass-through (two designated HDMI inputs)
- Built-in Bluetooth
- Auto setup with room EQ
- Front panel USB input

STATE-OF-THE-ART DENON SOLUTIONS FOR MAXIMISING CONTENT QUALITY AND CONNECTIVITY

- HDMI Rear 5in/1out
- Digital audio inputs: 2 Opt /1 Coax
- Audio: 2in, Video: Composite 2in/1out
- AM/FM Radio

EASE-OF-USE AND OTHER FEATURES

- ECO mode
- On-screen Setup Assistant
- On-screen GUI
- Larger Character Display
- 4 Quick Select buttons and RC buttons
- Sleep Timer, set up to 120 minutes in 10-minute increments
- Standby HDMI pass-through
- Getting started and On-line manual
- Simple clear Remote

Denon is a trademark or registered trademark of D&M Holdings, Inc.

* All specs can be subject to change
* Available only in Black

Technical information

Number of power amps	5
Power output	140 watts per channel (6 ohms, 1kHz, 1ch driven)
	70 watts per channel (8 ohms, 20Hz - 20 kHz, THD 0.08%, 2ch driven)
Output connectors	6 - 16 ohms

Preamplifier section	
Input sensitivity/impedance	200 mV / 47 kohms
Frequency response	10 Hz - 100 kHz — +1, –3 dB (DIRECT mode)
S/N Ratio	98 dB (IHF-A weighted, DIRECT mode)
FM section	
Tuning frequency range	87.5 - 107.9 MHz
AM section	
Tuning frequency range	520 - 1710 kHz

General	
Power supply	AC 120 V, 60 Hz
Power consumption	310 W (Standby 0.1W, CEC-Standby 3.6W)
Dimensions (W x H x D)	17.1" x 5.9"x 12.6"
Weight	16.5 lbs

Ports

IN	HDMI (front 1)	x 5
	Composite (video)	x 2
	Analogue Audio	x 2
	Digital Optical	x 2
	Digital Coaxial	x 1
OUT	HDMI Monitor	x 1
	Composite Monitor	x 1
	Audio Preout (SW)	0.2 ch
	Phones	x 1
OTHER	FM Tuner Antenna	x 1
	AM Tuner Antenna	x 1

Denon Electronics (USA), LLC.
100 Corporate Drive, Mahwah, New Jersey
07430 USA
TEL: 201-762-6500
usa.denon.com

DENON

Congratulations on purchasing this Denon product!
We invite you to join the Denon Owner's Club.

Thank you for choosing Denon.
Be the first to know about upcoming Denon products and get exclusive previews of new technologies. You will also receive members only offers from our online store and be the first in line for all promotions and contests.
http://usa.denon.com/us/MyAccount/Pages/Login.aspx

Join today!

Please register your product at,

USA Customers : http://usa.denon.com/us/Support/Pages/ProductRegistration.aspx
Canada Customers : http://ca.denon.com/CA/Support/Pages/ProductRegistration.aspx

Denon Factory Service Information

USA

DENON FACTORY SERVICE by PANURGY OEM
701 Ford Road (South Dock)
Rockaway, NJ 07866-2053
(973) 625-4056
(973) 625-9489 Fax
http://www.panurgyoem.com/Denon/Denonrepair.html

To locate an authorized warranty service center within your area please visit our web site at
http://usa.denon.com/us/Support/Pages/ServiceCenterSearch.aspx
or you can send your product to one of our Regional Super Service Centers listed below.

DENON REGIONAL SUPER SERVICE CENTERS (Repair only-No parts orders please)

PYRAMID AUDIO
305 E. Braker Lane
Austin, TX 78753-2746
(512) 458-8292
(512) 453-4542 Fax

UNITED RADIO SERVICE
5717 Enterprise Parkway
E. Syracuse, NY 13057-2905
(800) 634-8606
(315) 446-8505 Fax

AUDIO SERVICES
544 Central Dr., Suite 101
Virginia Beach, VA 23454-5245
(757) 498-8277
(757) 498-9554 Fax

INNER SOUND
1416 S.E. Morrison Street
Portland, OR 97214-2646
(503) 238-1955
(503) 238-1787 Fax

NORMAN'S ELECTRONICS
3653 Clairmont Road
Atlanta, GA 30341-4907
(770) 451-5057
(770) 455-8337 Fax

GOLD CROWN ELECTRONICS
Victoria Business Park
129 E. Savarona Way
Carson, CA 90746-1406
(310) 538-8282
(310) 538-8281 Fax

ELECTRONIC EXPRESS, Inc.
1809 E. Fabyan Parkway
West Chicago, IL 60185
(630) 208-4600
(630) 208-4601 Fax

CANADA

DENON FACTORY SERVICE by MICROLAND TECHNICAL SERVICES
170 Alden Road, Unit 2
Markham, ON L3R4C1
(905) 940-1982
http://clientportal.microland.ca/rmastart.aspx

To locate an authorized warranty service center within your area please visit our web site at
http://ca.denon.com/CA/Support/Pages/ServiceCenterSearch.aspx.

WARRANTY DE COMMON
5431 10003 40AD
CQE1A224P

This warranty will be honored only in the **U.S.A.**

DENON®

LIMITED WARRANTY

Length of Non-Transferable Warranty

This warranty on your DENON product which is distributed and warranted by DENON ELECTRONICS (USA), LLC remains in effect for the following periods from the date of the original consumer purchase from an AUTHORIZED DENON ELECTRONICS (USA), LLC DEALER.

Product Category					
A / V Controller, A / V Receiver, AM / FM Receiver			AVC, AVR, DRA	2	YEAR(S)
AVR-xx11CI series, AVR-xx12CI series and later			Special CI	3	
DVD Receiver, DVD Home Theater System			ADV, S	1	
Pre-Amplifier, Digital Pre-Amplifier Power-Amplifier, Head Amplifier			PRA, AVP, DAP, POA, HA	3	
Tuner, Integrated Amplifier			TU, PMA	3	
Option Board			ACD	3	
CD Player, DVD Player, Blu-ray Disc Player			DCD, DCM, DVD, DVM, DBP, DBT	1	
CD Recorder			CDRW	1	
CD Receiver, Network CD Receiver			RCD	1	
Network Audio Player			DNP	2	
System Audio			D-F, D-M, S	1	
Turntable	1	Autolift / Manual	DP-L, DP-M	4	
	2	Full Automatic	DP-F, DP-USB	2	
Speaker			SC	5	
Sub-woofer			DSW	1	
Microphone			DM-S, DM-A	2	
iPhone® / iPod® Docks			ASD, DSD	1	
Headphone			AH	1	
Front Surround Home Theater System			DHT-FS	1	
Video Processor			DVP	3	
Cartridge			DL	90	DAYS
Remote Controller			RC	90	
Cables			AK	90	
Speaker stands			ASF	90	

iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

What is Covered

Except as specified below, this Warranty covers all defects in material and workmanship in this product occurring during the above warranty periods. The following are not covered by the Warranty: (1) Any product which is not distributed in the U.S.A. by DENON ELECTRONICS (USA), LLC. (2) Any product which is not purchased in the U.S.A. from an authorized DENON dealer. (Note: AUTHORIZED DENON DEALERS can be identified by DENON AUTHORIZED DEALER sticker displayed in the stores. If you are uncertain as to whether a dealer is a DENON AUTHORIZED DEALER, please contact DENON as listed below). (3) Any product on which the serial number has been defaced, modified or removed. (4) Damaged deterioration or malfunction resulting from: a) Accident, act of nature, abuse, misuse, neglect, unauthorized product repair, opening of or modification or failure to follow instructions supplied with the product. b) Repair or attempted repair by anyone not authorized by DENON. c) Any shipment of the product (claim must be presented to carrier). (5) Items subject to wear from normal usage (tape heads, cartridges, stylus, battery, etc.). (6) Periodic check-ups which do not disclose any defect. (7) Use of the product outside the U.S.A. (8) Damaged magnetic tape or CD/DVD discs. (9) Use in industrial, commercial, and/or professional applications. (10) Any installation or removal charges resulting from product failure.

What We Will Pay For

If during the applicable warranty period from the date of original consumer purchase your DENON product is found to be defective by DENON, DENON will repair, or at its option, replace with new, used or equivalent model, such defective product without charge for parts or labor.

How to Obtain Warranty Performance

If your unit ever needs service, it may be taken or shipped to any authorized DENON service station or DENON ELECTRONICS (if you are uncertain as to whether a service station is DENON authorized, please visit our website at http://usa.denon.com/us/Support/Pages/ServiceCenterSearch.aspx or contact DENON as listed below.) In all other cases, the following procedures apply whenever your unit must be transported for warranty service;

a. You are responsible for transporting your unit or arranging for its transportation.
b. If shipment of your unit is required;
   You must pay the initial shipping charges, but we will pay the return shipping charges if the repairs are covered by the Warranty.
c. WHEN RETURNING YOUR UNIT FOR WARRANTY SERVICE, A COPY OF THE ORIGINAL SALES SLIP MUST BE ATTACHED.
d. You should include the following: your name, address, daytime telephone number, model and serial number of the product and a description of the problem.
   In the case of a CD or DVD Player, please enclose ONE (1) disc that the unit has failed with for test reasons. It will be returned with the unit.

THIS WARRANTY IS VALID IN THE U.S.A. ONLY.

If your product does not require service, but you have questions regarding its operation, please contact our Technical Services Department as listed below.

THIS WARRANTY IS EXPRESSLY MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

OUR LIABILITY IS LIMITED TO THE REPAIR OR REPLACEMENT, AT OUR OPTION, OF ANY DEFECTIVE PRODUCT AND SHALL IN NO EVENT INCLUDE INCIDENTAL OR CONSEQUENTIAL COMMERCIAL OR PROPERTY DAMAGES OF ANY KIND. WE ARE NOT RESPONSIBLE FOR PRODUCTS LOST, STOLEN AND/OR DAMAGED DURING SHIPPING.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

This warranty gives you specific legal rights, but you may also have other rights which vary from state to state. This Warranty may not be altered other than in a writing signed by an officer of Denon Electronics USA, LLC.

DENON ELECTRONICS (USA), LLC
(a D&M Holdings Company)
100 Corporate Drive
Mahwah, NJ 07430-2041
(201) 762-6665
www.usa.denon.com

DENON FACTORY SERVICE by PANURGY OEM
701 Ford Road (South Dock)
Rockaway, NJ 07866-2053
(973) 625-4056
(973) 625-9489 Fax
http://www.panurgyoem.com/Denon/Denonrepair.html

This warranty will be honored only in **Canada.**

DENON®

LIMITED WARRANTY

Length of Non-Transferable Warranty

This warranty on your DENON product which is distributed and warranted by D&M CANADA INC. remains in effect for the following periods from the date of the original consumer purchase from an AUTHORIZED D&M CANADA INC. DEALER.

Product Category

A / V Controller, A / V Receiver, AM / FM Receiver			AVC, AVR, DRA	2	YEAR(S)
DVD Receiver, DVD Home Theater System			ADV, S	1	
Pre-Amplifier, Digital Pre-Amplifier Powe Amplifier, Head Amplifier			PRA, AVP, DAP, POA, HA	3	
Tuner, Integrated Amplifier			TU, PMA	3	
Option Board			ACD	3	
CD Player, DVD Player, Blu-ray Disc Player			DCD, DCM, DVD, DVM, DBP, DBT	1	
CD Recorder			CDRW	1	
CD Receiver, Network CD Receiver			RCD	1	
Network Audio Player			DNP	2	
System Audio			D-F, D-M, S	1	
Turntable	1	Autolift / Manual	DP-L, DP-M	4	
	2	Full Automatic	DP-F, DP-USB	2	
Speaker			SC	5	
Sub-woofer			DSW	1	
Microphone			DM-S, DM-A	2	
iPhone® / iPod® Docks			ASD, DSD	1	
Headphone			AH	1	
Front Surround Home Theater System			DHT-FS	1	
Video Processor			DVP	3	
Cartridge			DL	90	DAYS
Remote Controller			RC	90	
Cables			AK	90	
Speaker stands			ASF	90	

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b. If shipment of your unit is required;
   You must pay the initial shipping charges, but we will pay the return shipping charges if the repairs are covered by the Warranty.
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d. You should include the following: your name, address, daytime telephone number, model and serial number of the product and a description of the problem.
   In the case of a CD or DVD Player, please enclose ONE (1) disc that the unit has failed with for test reasons. It will be returned with the unit.

THIS WARRANTY IS VALID IN CANADA ONLY.

If your product does not require service, but you have questions regarding its operation, please contact our Technical Services Department as listed below.

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OUR LIABILITY IS LIMITED TO THE REPAIR OR REPLACEMENT, AT OUR OPTION, OF ANY DEFECTIVE PRODUCT AND SHALL IN NO EVENT INCLUDE INCIDENTAL OR CONSEQUENTIAL COMMERCIAL OR PROPERTY DAMAGES OF ANY KIND. WE ARE NOT RESPONSIBLE FOR PRODUCTS LOST, STOLEN AND/OR DAMAGED DURING SHIPPING.

SOME PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

This warranty gives you specific legal rights, but you may also have other rights which vary from province to province. This Warranty may not be altered other than in a writing signed by an officer of D&M Canada Inc.

D&M CANADA INC.
10462 Islington Avenue, Unit 8B
Kleinburg, Ontario L0J 1C0
(905) 475-4085
www.ca.denon.com

DENON FACTORY SERVICE
by MICROLAND TECHNICAL SERVICES
170 Alden Road, Unit 2
Markham, ON L3R 4C1
(905) 940-1982
http://clientportal.microland.ca/rmastart.aspx

Cette garantie ne sera honorée qu'au **Canada.**

DENON®

GARANTIE LIMITÉE

Durée du garantie non-transférable

La garantie de votre produit DENON, distribué et garanti par D&M CANADA INC. prend effet à partir de la date d'achat du consommateur original auprès d'un revendeur official D&M CANADA INC. pendant les périodes suivantes.

Catégorie de produit

Contrôleur A / V, Récepteu A / V, Récepteur AM / FM			AVC, AVR, DRA	2	ANNÉES
Récepteur DVD, Système DVD Home Theater			ADV, S	1	
Préamplificateur, préamplificateur numérique Amplificateur de puissance, Préamplificateur phono			PRA, AVP, DAP, POA, HA	3	
Syntoniseur, amplificateur intégré			TU, PMA	3	
Carte optionnelle			ACD	3	
Lecteur CD, Lecteur DVD, Lecteur Disque Blu-ray			DCD, DCM, DVD, DVM, DBP, DBT	1	
Enregistreur CD			CDRW	1	
Ampri-tuner avec Lecteur de CD, Récepteur audio / CD avec réseau intégré			RCD	1	
Lecteur Audio Réseau			DNP	2	
Système Audio			D-F, D-M, S	1	
Table tournante	1	Levée auto	DP-L, DP-M	4	
	2	Auto complet	DP-F, DP-USB	2	
Haut-parleurs			SC	5	
Sub-woofer			DSW	1	
Micro			DM-S, DM-A	2	
iPhone® / iPod® Docks			ASD, DSD	1	
Casque d'écoute			AH	1	
Avant Surround Système Home Theater			DHT-FS	1	
Processeur vidéo			DVP	3	
Cellule phonolectrice			DL	90	JOURS
Télécommande			RC	90	
Câble			AK	90	
Support pour enceinte acoustique			ASF	90	

Apple et iPod sont des marques commerciales d'Apple Inc., déposées aux Etats-Unis et dans d'autres pays.

Couverture

Cette garantie couvre tous les défauts de matériel ou de fabrication du produit, à l'exception de ceux indiqués ci-après qui conforrment selon les termes durant la periode de la garantie. Ne sont pas couverts par la garantie: (1) Tout produit qui n'est pas distribué au Canada par D&M CANADA INC. (2) Tout produit qui n'a pas été acheté au Canada auprès d'un revendeur officiel DENON (Note: On peut identifier les revendeurs officiels DENON par leur auto-collant "REVENDEUR OFFICIEL DENON" affiché dans leur magasin. Si vous doutez qu'un revendeur soit officiellement reconnu, contactez D&M CANADA INC. à l'adresse ci-dessous.) (3) Tout produit dont le numéro de série a été effacé, modifié ou enlevé. (4) Dommages dus à la détérioration ou à un fonctionnement défectueux à la suite de: a) accident, acte de la nature, abus, utilisation impropre, négligence, réparation au moyen d'un produit non autorisé, debalé, modification, emploi contraire aux instructions fournies avec le produit, b) réparation ou tentative de réparation par quelqu'un non reconnu par DENON. c) tout envoi du produit (la réclamation doit être présentée au transporteur), (5) Articles sujets à détérioration par l'usage (têtes de magnétophone, cellules phono, pointes de lecture phono, piles, etc.). (6) Vérification périodique qui ne révèle aucun défaut. (7) Utilisation du produit hors du Canada. (8) Bandes magnétiques, disques CD ou DVD endommagés. (9) Utilisation commerciale, industrielle ou professionnelle. (10) Toutes charges d'installation ou de déplacement résultant d'un défaut du produit.

Notre paiement

Si votre produit DENON est reconnu défectueux par DENON durant la période d'application de la garantie après la date d'achat du consommateur, DENON réparera ou, à son choix, remplacera avec un modèle neuf, usagé ou équivalent ce produit défectueux sans frais de pièces ni de main d'œuvre.

Application de la garantie

Si votre appareil nécessite une vérification ou une réparation, il peut être apporté ou envoyé à tout atelier de service autorisé DENON ou directement chez D&M CANADA INC. (Pour trouver l'atelier autorisé le plus près, prière de vérifier sur le site Internet de DENON au http://ca.denon.com/CA/Support/Pages/ServiceCenterSearch.aspx ou bien contactez D&M Canada Inc aux coordonnés indiquées ci bas).

Dans tous les autres cas, les procédures suivantes s'appliquent si votre appareil doit être envoyé pour une vérification ou une réparation sous garantie.

a. Vous êtes responsable du transport de votre article ou vous devez vous arranger vous-même pour son transport.
b. Si votre article doit être envoyé, vous devez payer les frais d'envoi initiaux, mais nous payerons les frais de retour si la garantie couvre les réparations.
c. LORSQUE VOUS RENVOYEZ VOTRE ARTICLE POUR UN SERVICE SOUS GARANTIE, VOUS DEVEZ JOINDRE UNE COPIE DE LA FACTURE D'ACHAT D'ORIGINE.
d. Vous devez inclure également vos nom, adresse, numéro de téléphone de jour, numéros de modèle et de série du produit et une description du problème. Dans le cas d'un lecteur CD ou DVD, joindre un disque que l'appareil n'a pu lire pour test. Il vous sera retourné avec l'article.

CETTE GARANTIE EST VALABLE SEULMENT AU CANADA.

Si votre produit ne requiert aucun service mais que vous avez des questions quant à son fonctionnement, contactez notre département technique dont l'adresse figure ci-dessous.

CETTE GARANTIE EST EXPRESSÉMENT FAITE EN LIEU ET PLACE DE TOUTES LES AUTRES GARANTIES EXPRIMÉES OU SOUS-ENTENDUES' Y COMPRIS, SANS SE LIMITER À CELLES-CI, LES GARANTIES MARCHANDES ET SPÉCIFIQUES POUR UN USAGE PARTICULIER.

NOTRE RESPONSABILITÉ SE LIMITE À LA RÉPARATION OU AU REMPLACEMENT, À NOTRE CHOIX, DE TOUT PRODUIT DÉFECTUEUX ET N'INCLUT EN AUCUN CAS DES DOMMAGES FORTUITS, COMMERCIAUX INDIRECTS NI MATÉRIELS D'AUCUNE SORTE. NOUS NOUS SOMMES PAS RESPONSABLES POUR LA PERTE DE LES PRODUITS ET/OU LES MARCHANDISES ENDOMMAGEES PENDANT LE TRNASPORT DES BIENS.

CERTAINES PROVINCES NE PERMETTENT PAS DE LIMITES QUANT À LA DURÉE D'UNE GARANTIE SOUS-ENTENDUE ET/OU NE PERMETTENT PAS L'EXCLUSION DE DOMMAGES FORTUITS. LES LIMITATIONS ET EXCLUSIONS MENTIONNÉES PLUS HAUT PEUVENT NE PAS S'APPLIQUER À VOTRE CAS.

Cette garantie vous donne des droits légaux spécifiques, mais il se pourrait que vous ayez d'autres droits qui varient d'une province à l'autre. La garantie ne peut être modifiée que par un document signé par un gestionnaire autorisé de D&M Canada.

D&M CANADA INC.
10462 Islington Avenue, Unit 8B
Kleinburg, Ontario L0J 1C0
(905) 475-4085
www.ca.denon.com

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http://clientportal.microland.ca/rmastart.aspx